

FCC / ISED – TEST REPORT

Report Number : **60.790.23.023.01R03** Date of Issue: **September 12, 2023**

Model/HVIN : **AURORA V2.2**

Product Type : Retail IoT Sensor

Applicant : RetailNext Inc.

Address : 60 S Market St, 3rd Floor, Suite 310, San Jose, California 95113, United States

Manufacturer : Altek Coroporation

Address : No.12, Lixing Road, East District, Hsinchu City, Taiwan

Test Result : ☒ **Positive** ☐ Negative

Total pages including Appendices : **172**

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

FCC Registration No.: 514049

FCC Deignation No.: CN5009

IC Registration No.: 10320A

ISED CAB Identifier: CN0077

3 Description of the Equipment Under Test

Product:	Retail IoT Sensor
Model no.:	AURORA V2.2
Hardware Version Identification No. (HVIN)	AURORA V2.2
Product Marketing Name (PMN)	AURORA V2.2
Brand name:	 RetailNext
FCC ID:	2AFSV-AURORA-V2-2
IC:	30959-AURORAV22
Rating:	36 – 57 VDC, 15.4W (POE802.3af)
RF Transmission Frequency:	5.180GHz~5.240GHz 5.260GHz~5.320GHz 5.500GHz~5.700GHz 5.745GHz~5.825GHz The device shall not be capable of transmitting in the 5600-5650 MHz band.
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM
Antenna Type:	FPC PIFA
Antenna	Gain: 5.53 dBi max (5GHz)
Description of the EUT:	The Equipment Under Test (EUT) is a Retail IoT Sensor which support Bluetooth function and Wi-Fi operated at 5GHz and 2.4GHz. Only 5GWiFi included in this report.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

NOTE 2: The device shall not be capable of transmitting in the band 5600-5650MHz.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, October 1, 2021 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices
RSS-Gen Issue 5 April 2018 + Amendment 1 March 2019 + Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3 August 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

Test Method:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 Client Without DFS New Rules v01r02

ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of
Unlicensed Wireless Devices

5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C and Subpart E / RSS-247 Issue 3 / RSS-Gen Issue 5 + A1 + A2						
Test Condition		Test Site	Test Result			Test Environment
			Pass	Fail	N/A	
§15.207 & RSS-GEN 8.8	Conducted emission AC power port	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.407 (e) & RSS-GEN 6.7	Emission bandwidth	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.407 (a) & RSS-247 6.2	Maximum Conducted Output Power	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.407(a) & RSS-247 6.2	Maximum Power Spectral Density	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4), 15.407(b)(8), 15.407(b)(9), 15.209 & RSS-247 6.2	Unwanted Emissions	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.407(g) & RSS-GEN 6.11	Frequencies Stability	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.407(h) & RSS-247 6.3	Dynamic Frequency Selection (DFS).	Site 1	☒	☐	☐	T: 24.8°C H: 53.7%
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	☒	☐	☐	--

Note 1: N/A=Not Applicable.

Note 2: This result include in this report is only the DFS client without radar detection mode part of the product.

Note 3: The EUT uses a FPC PIFA antenna, which gain is 5.53 dBi. In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.

Note 4: T: Temperature, H: Humidity

6 General Remarks

Remarks

This submittal(s) (test report) is intended for **FCC ID: 2AFSV-AURORA-V2-2**, **IC: 30959-AURORAV22**, complies with Section 15.207, 15.209, 15.407 of the FCC Part 15, Subpart E rules and RSS-247, RSS-GEN.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - Not Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: July 10, 2023

Testing Start Date: July 11, 2023

Testing End Date: August 29, 2023

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:

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EMC Project Engineer

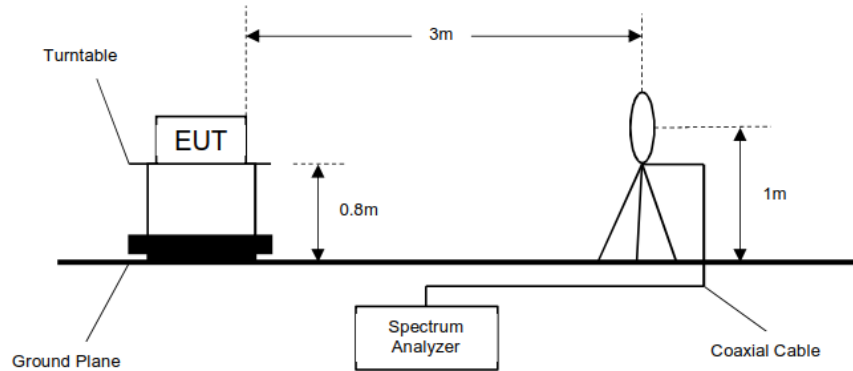


Louise LIU
EMC Test Engineer

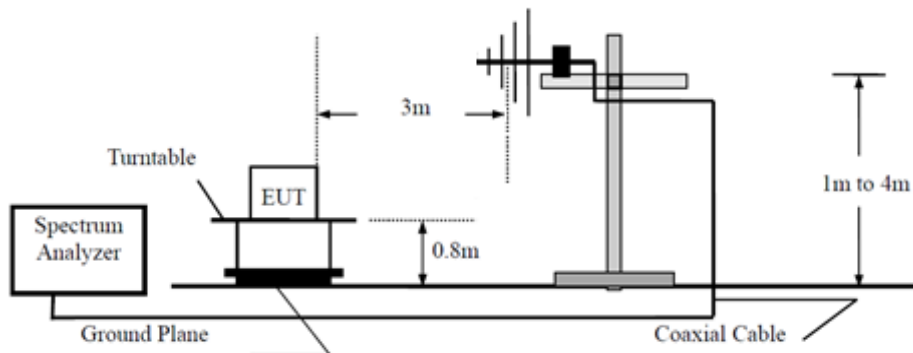
7 Test setups

7.1 Radiated test setups

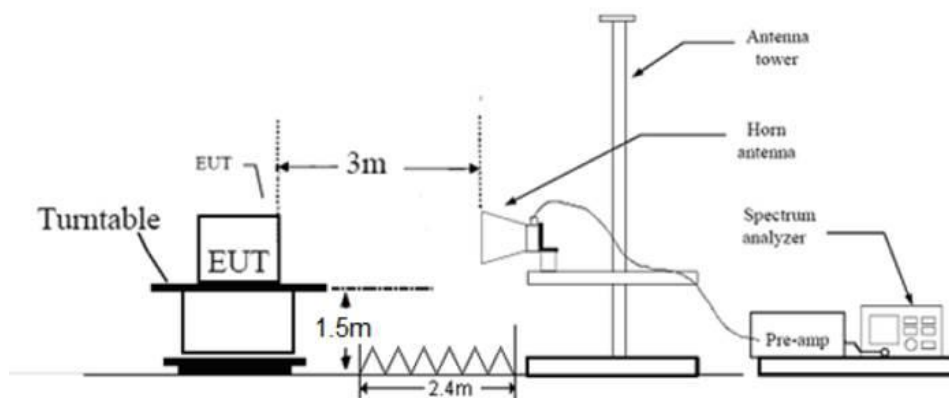
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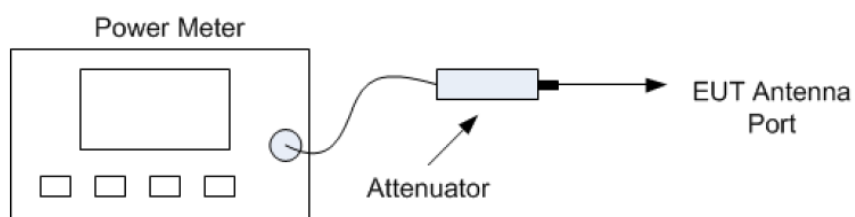
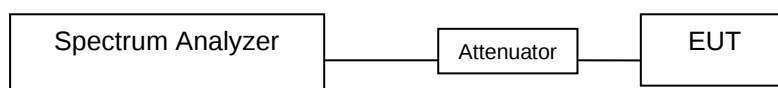
Below 1GHz



Above 1GHz

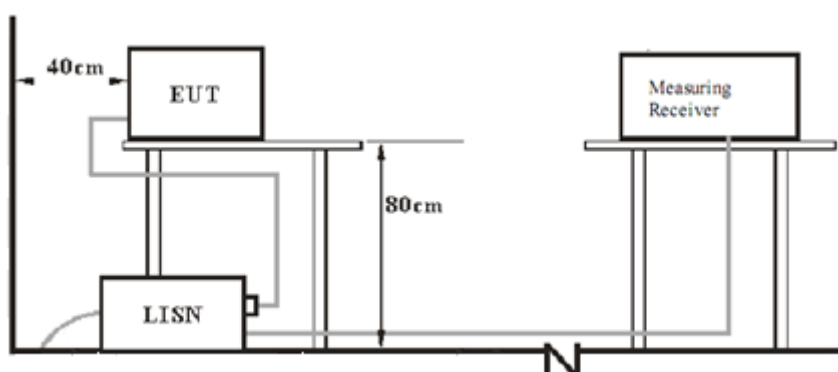


7.2 Conducted RF test setups



Power meter conducted test setup

7.3 AC Power Line Conducted Emission test setups



8. Systems test configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	Remark
Laptop	Thinkpad	T460S	---
Router	D-Link corporation	DIR-605L	---
AC/DC Adaptor	TP-Link Corporation Ltd	T480050-2D1	Input: 100-240 VAC 0.8A Output: 48 VDC 0.5A, 24.0W
POE Injector	TP-Link Corporation Ltd	TL-POE150S	Input: 48 VDC, 0.5A Output: 48 VDC 0.35A

Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
Connection Cable	1.0m	Shielded	Without ferrite

In order to find the worst case condition, pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Band	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac HT20	MCS0
802.11ac HT40	MCS0
802.11ac HT80	MCS0

the following channels

Modulation	Channel	Frequency (MHz)
802.11a / 802.11n20 / 802.11ac20	36	5180
	44	5220
	48	5240
	52	5260
	60	5300
	64	5320
	100	5500
	116	5580
	140	5700
	144	5720
	149	5745
	157	5785
	165	5825
	165	5825
802.11n40 / 802.11ac40	38	5190
	46	5230
	54	5270
	62	5310
	102	5510
	110	5550
	134	5670
	142	5710
	151	5755
	159	5795
802.11ac80	42	5210
	58	5290
	106	5530
	122	5610
	138	5690
	155	5775

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively

Limit

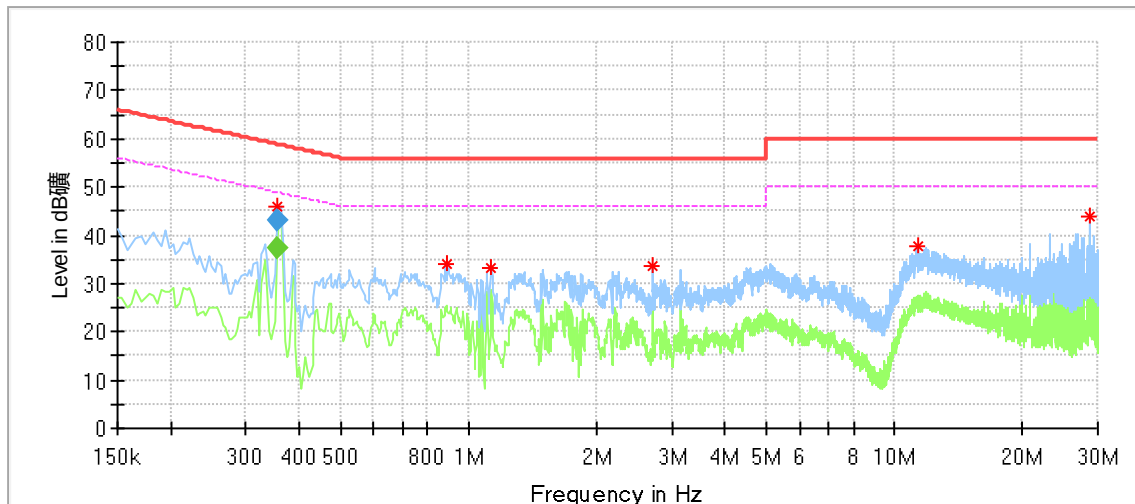
According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Retail IoT Sensor
 M/N : AURORA V2.2
 Operating Condition : Normal Working
 Test Specification : Line
 Comment : AC 120V/60Hz



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.357500	45.78	---	58.68	12.90	L1	9.61
0.886000	34.16	---	56.00	21.84	L1	9.64
1.134000	33.30	---	56.00	22.70	L1	9.64
2.702000	33.52	---	56.00	22.48	L1	9.68
11.338000	37.57	---	60.00	22.43	L1	9.93
28.806000	44.06	---	60.00	15.94	L1	10.03

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.357500	43.12	---	58.79	15.67	L1	9.61
0.357500	---	37.48	48.79	11.31	L1	9.61

Remark:

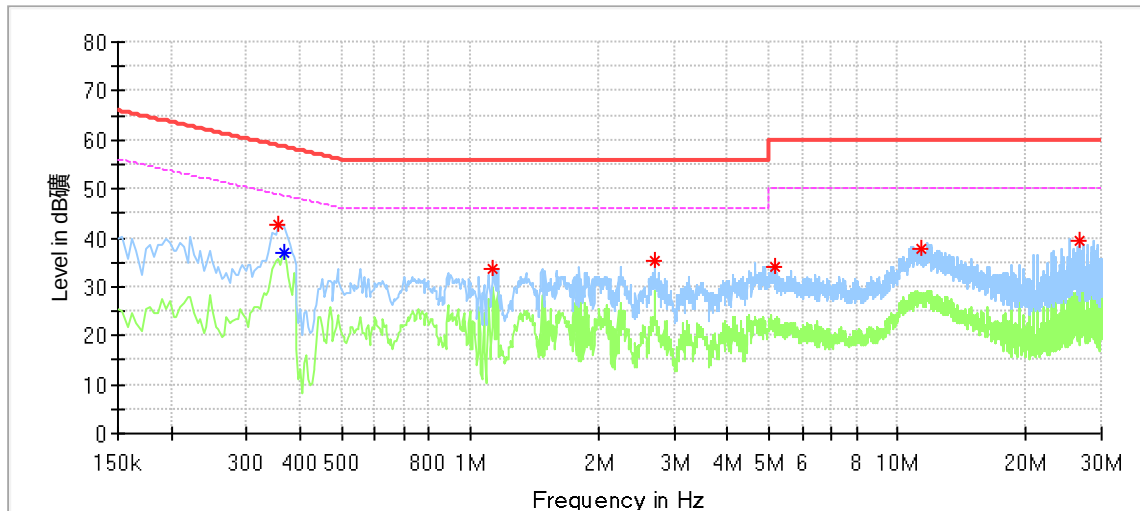
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Retail IoT Sensor
 M/N : AURORA V2.2
 Operating Condition : Normal Working
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.354000	42.68	---	58.87	16.19	N	9.61
0.366000	---	36.94	48.59	11.65	N	9.61
1.134000	33.48	---	56.00	22.53	N	9.64
2.698000	35.12	---	56.00	20.88	N	9.68
5.194000	34.06	---	60.00	25.94	N	9.78
11.306000	37.89	---	60.00	22.11	N	9.93
26.610000	39.57	---	60.00	20.43	N	10.08

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

9.2 Emission bandwidth

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

1. Test Method of 26dB Bandwidth

- 1) 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2. Test Method of 6dB Bandwidth

- 1) center frequency to the nominal EUT channel center frequency
- 2) Set RBW = 100KHz
- 3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- 4) Detector = Peak.
- 5) Trace mode = max hold.
- 6) Sweep = Sweep = No faster than coupled (auto) time.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- 8) Record the results in the test report.

Limit: $\geq 500\text{KHz}$

Test Method of 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 RBW
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Use the 99 % power bandwidth function of the instrument.
9. Record the results in the test report.

Limit: No limit

Test result as below table:

IEEE 802.11a modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
U-NII-1	Low	5180	17.063	22.280
	Middle	5200	17.143	22.120
	High	5240	17.183	21.280
U-NII-2A	Low	5260	17.103	21.520
	Middle	5280	17.183	21.280
	High	5320	17.183	22.160
U-NII-2C	Low	5500	17.103	22.800
	Middle	5580	17.143	21.880
	High	5700	17.143	21.760
		5720	17.103	22.160
U-NII-3	Low	5745	17.183	N/A
	Middle	5785	17.183	N/A
	High	5825	17.143	N/A

IEEE 802.11n-HT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
U-NII-1	Low	5180	18.262	22.080
	Middle	5200	18.082	22.240
	High	5240	18.262	22.160
U-NII-2A	Low	5260	18.262	21.600
	Middle	5280	18.262	22.680
	High	5320	18.302	22.400
U-NII-2C	Low	5500	18.302	22.120
	Middle	5580	18.302	22.200
	High	5700	18.302	21.960
		5720	18.262	22.480
U-NII-3	Low	5745	18.262	N/A
	Middle	5785	18.302	N/A
	High	5825	18.262	N/A

IEEE 802.11n-HT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
U-NII-1	Low	5190	36.603	41.680
	High	5230	36.603	41.840
U-NII-2A	Low	5270	36.603	41.520
	High	5310	36.603	42.080
U-NII-2C	Low	5510	36.603	41.760
	Middle	5550	36.603	41.600
	High	5670	36.603	41.680
		5710	36.683	41.760
U-NII-3	Low	5755	36.683	N/A
	High	5795	36.683	N/A

IEEE 802.1ac-VHT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
U-NII-1	Low	5180	18.262	22.480
	Middle	5200	18.262	22.160
	High	5240	18.302	22.400
U-NII-2A	Low	5260	18.262	22.280
	Middle	5280	18.262	22.080
	High	5320	18.302	22.680
U-NII-2C	Low	5500	18.262	22.240
	Middle	5580	18.302	22.080
	High	5700	18.262	22.120
		5720	18.302	22.000
U-NII-3	Low	5745	18.262	N/A
	Middle	5785	18.262	N/A
	High	5825	18.262	N/A

IEEE 802.1ac-VHT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
U-NII-1	Low	5190	36.523	41.120
	High	5230	36.523	41.120
U-NII-2A	Low	5270	36.523	41.440
	High	5310	36.523	41.120
U-NII-2C	Low	5510	36.603	41.120
	Middle	5550	36.523	41.120
	High	5670	36.603	41.440
		5710	36.603	41.680
U-NII-3	Low	5755	36.523	N/A
	High	5795	36.603	N/A

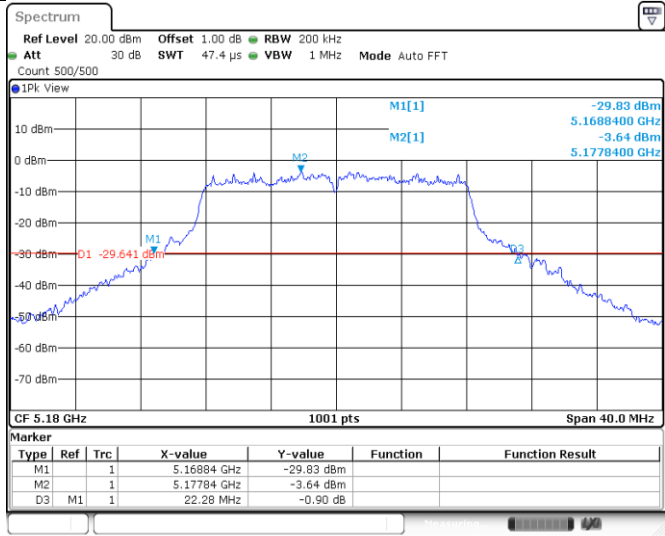
IEEE 802.1ac-VHT80 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)
U-NII-1	Low	5210	75.764	83.680
U-NII-2A	High	5290	75.924	84.480
U-NII-2C	Low	5530	75.764	84.160
	Middle	5610	75.924	84.320
	High	5690	75.924	85.280
U-NII-3	High	5775	76.084	N/A

Remark: "N/A" means "Not Applicable"

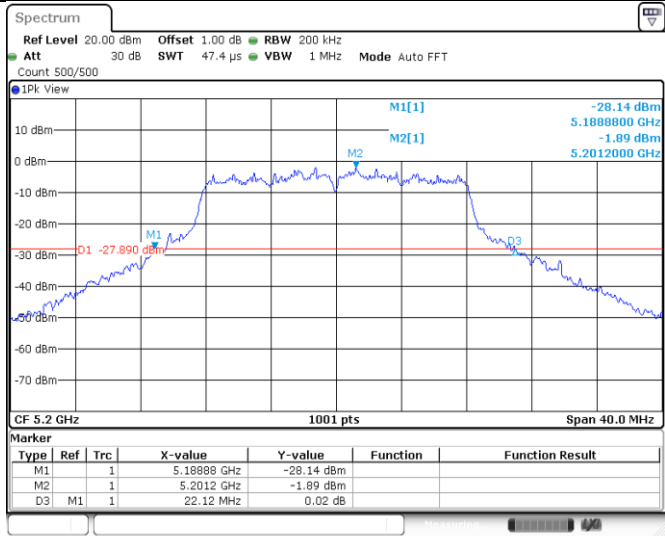


26dB Bandwidth as below: 11A_Ant1_5180



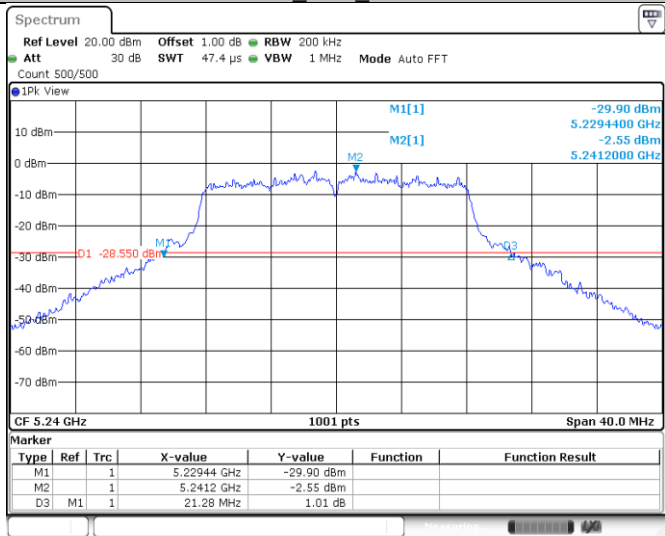
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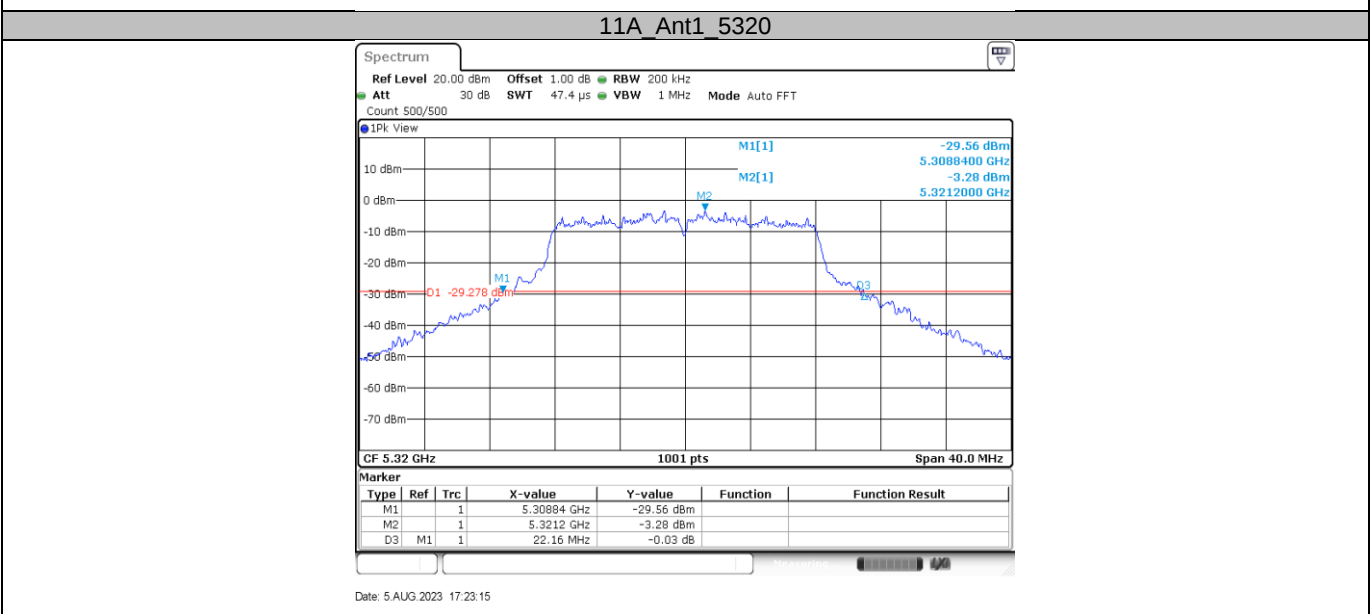
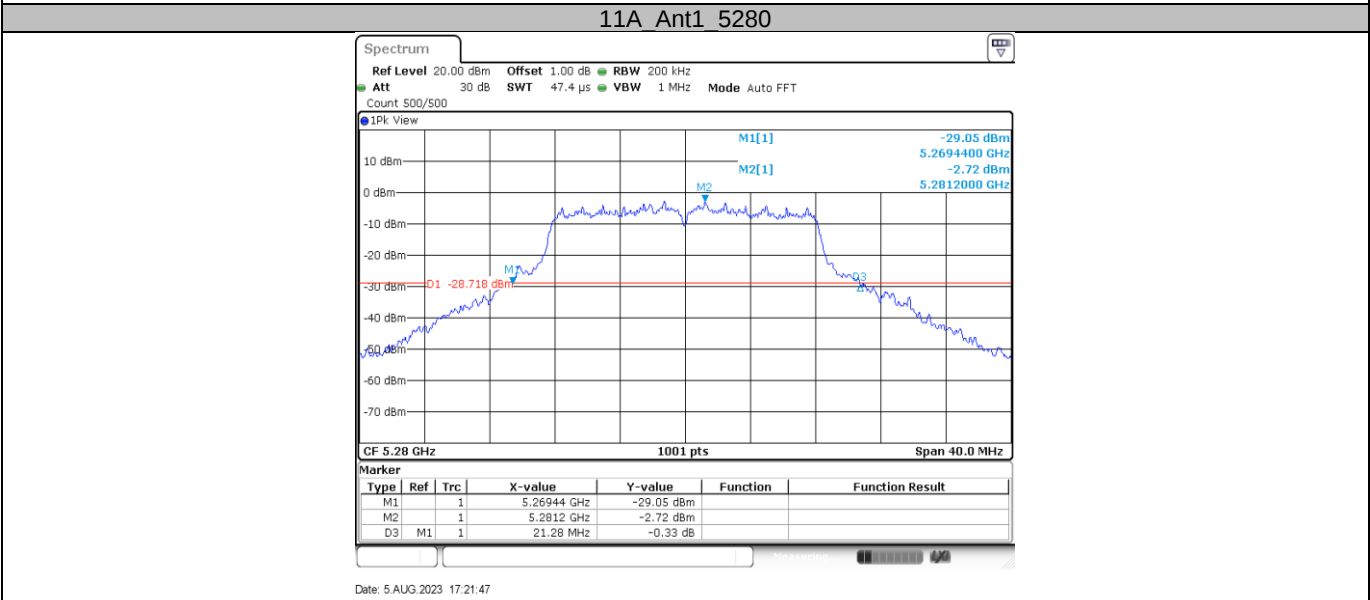
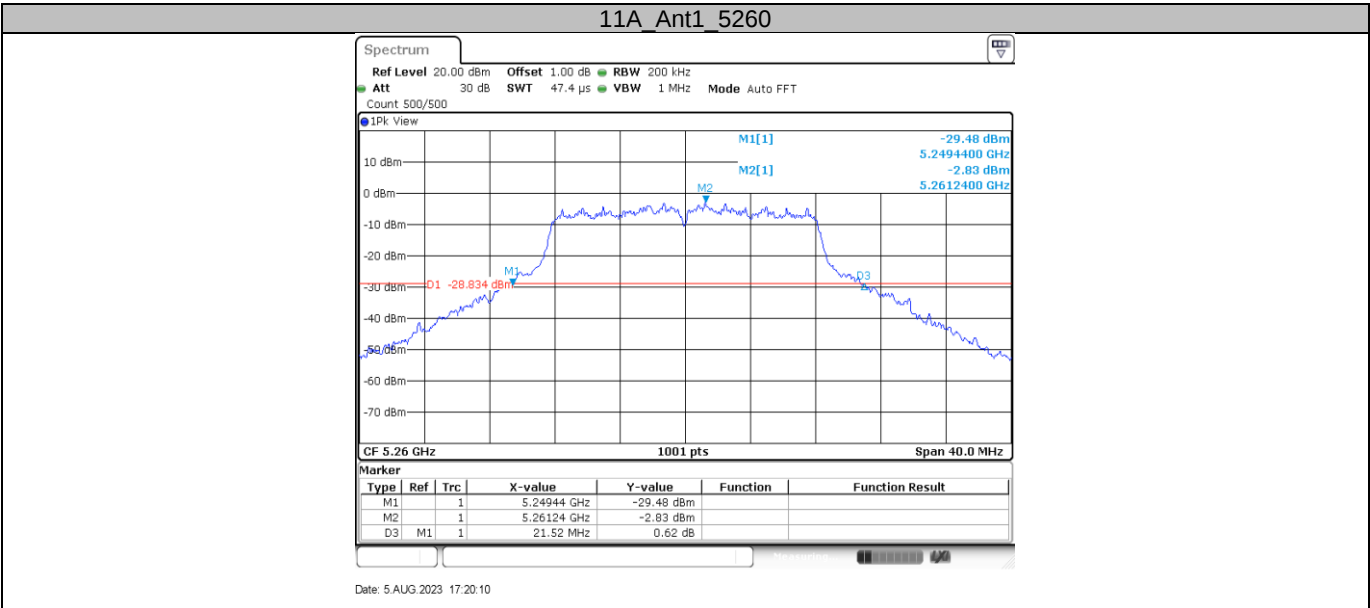


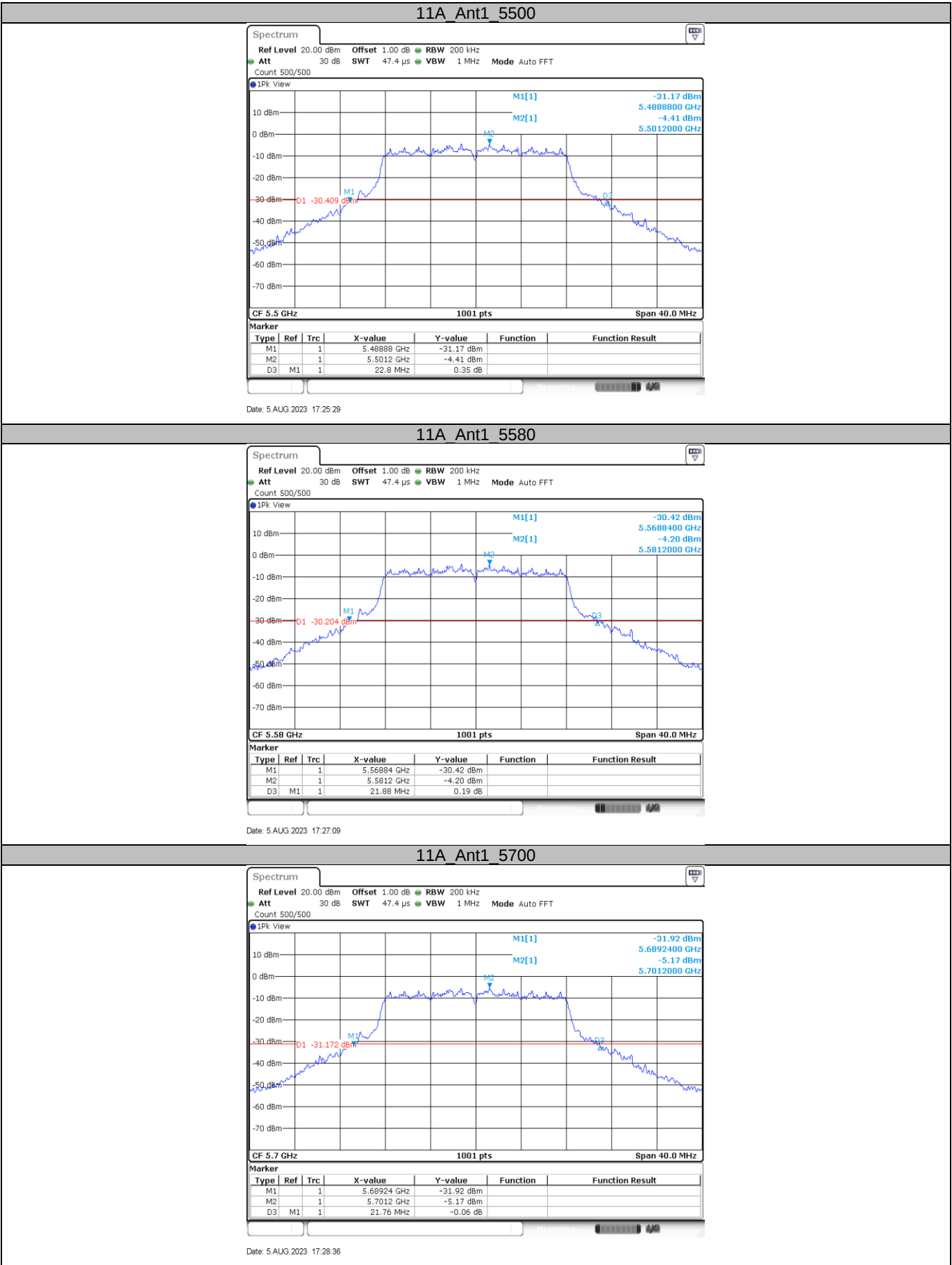
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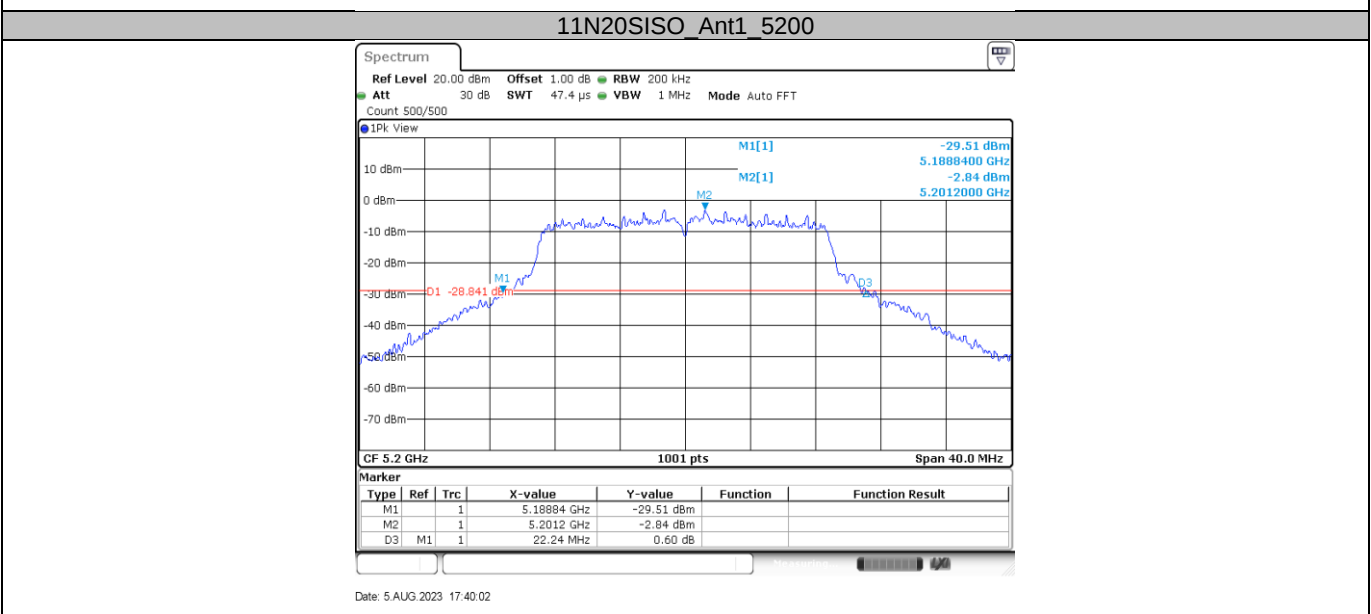
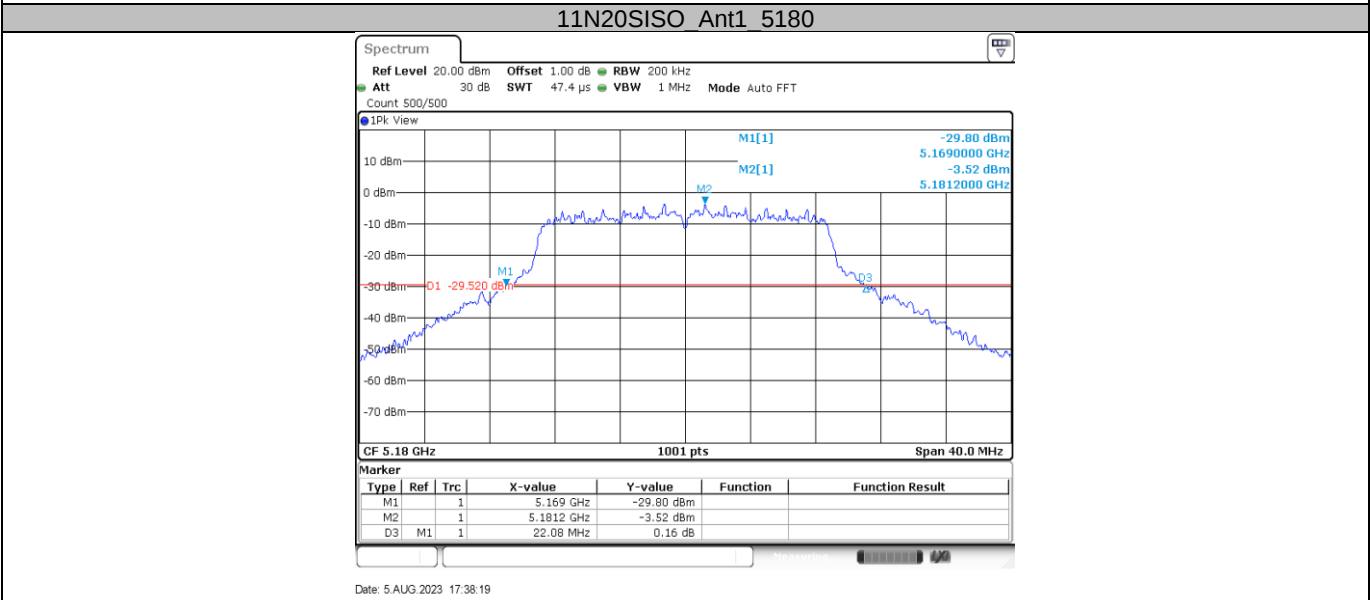
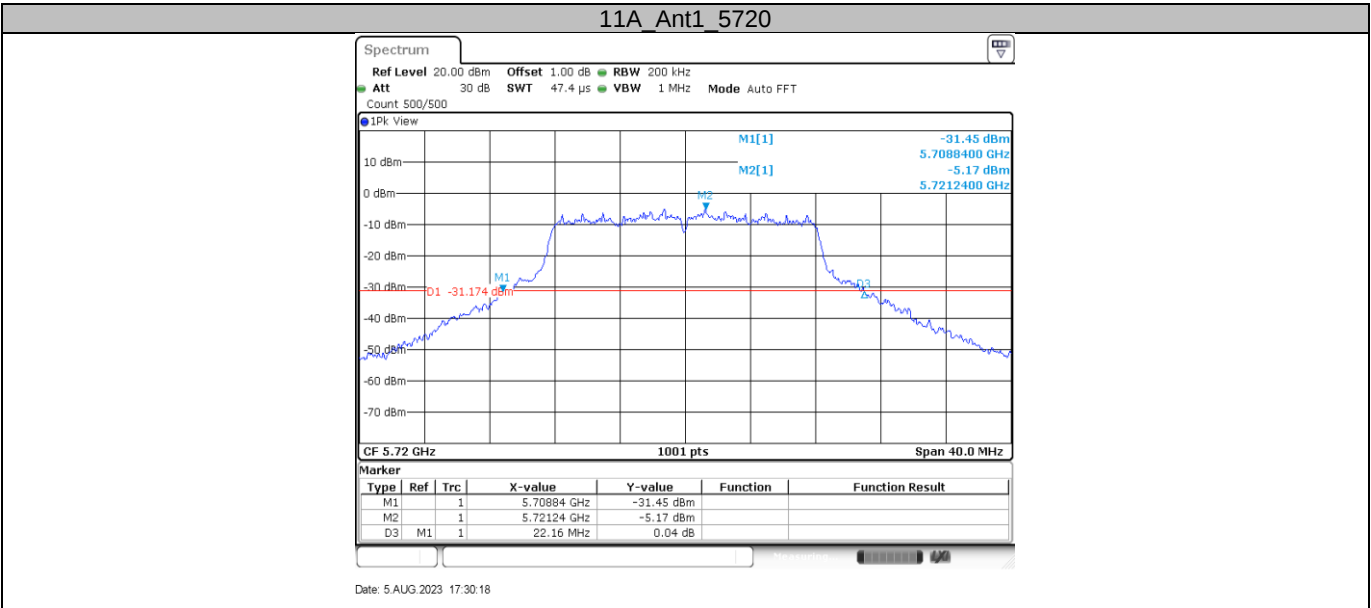
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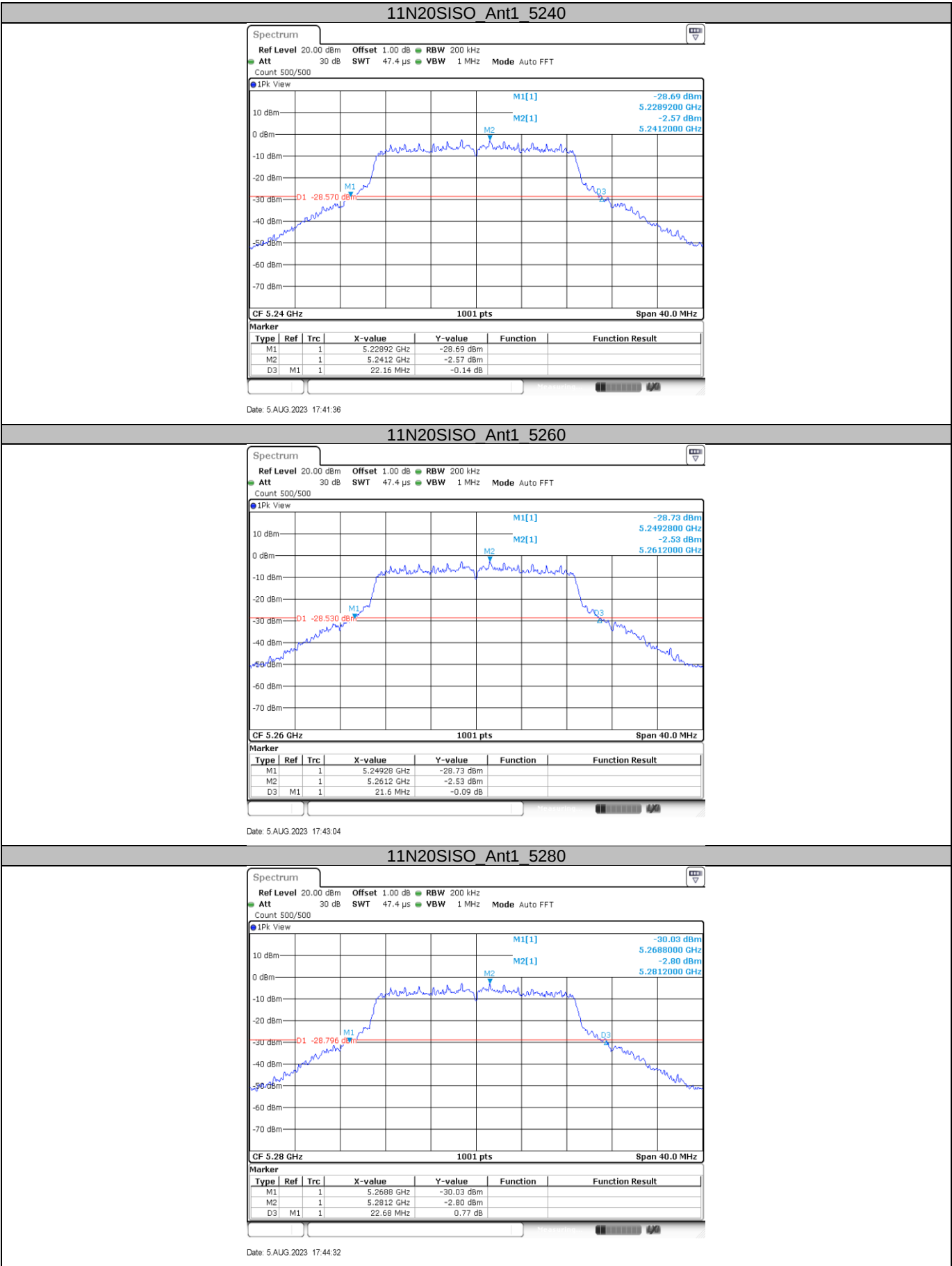


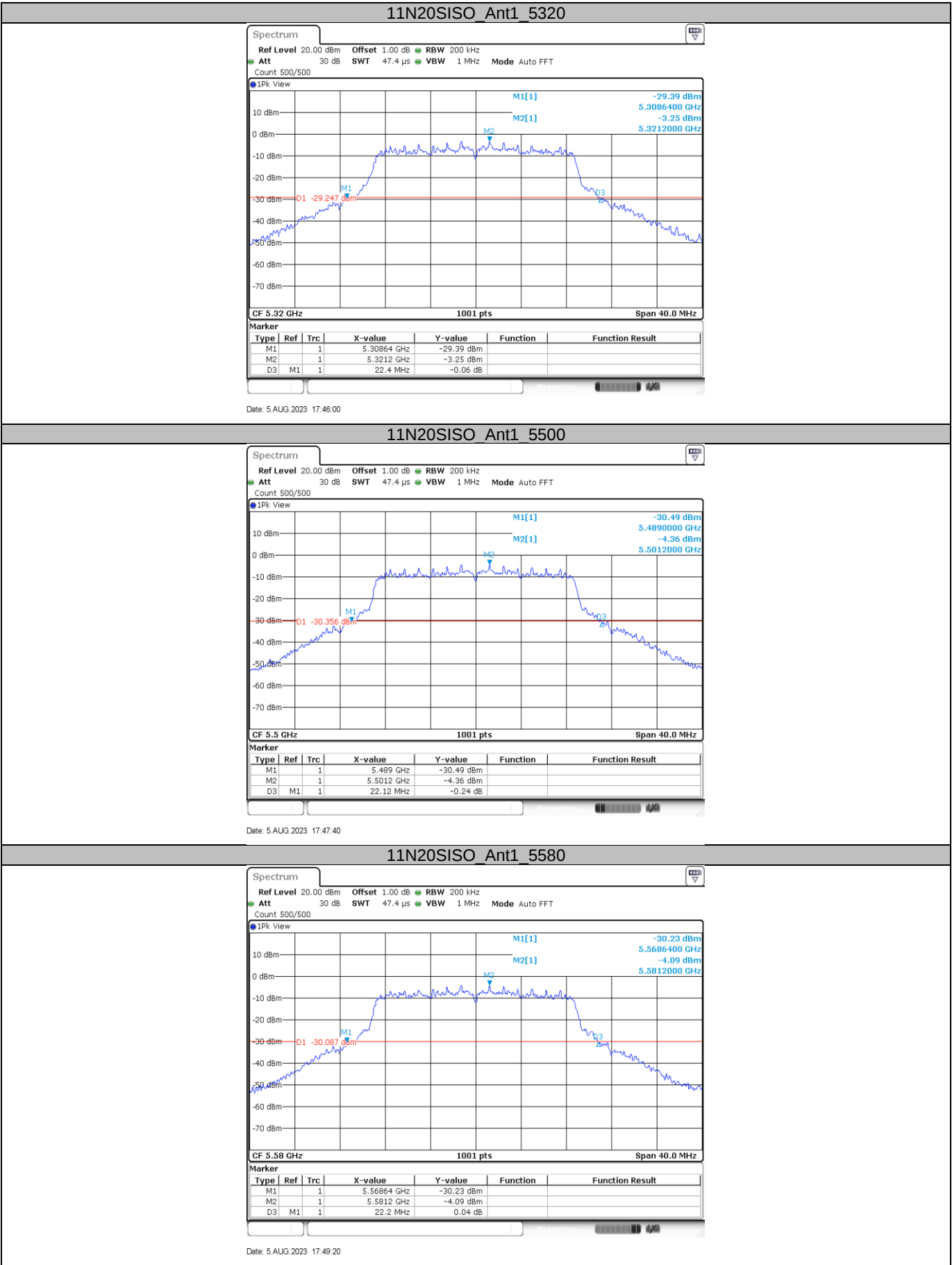
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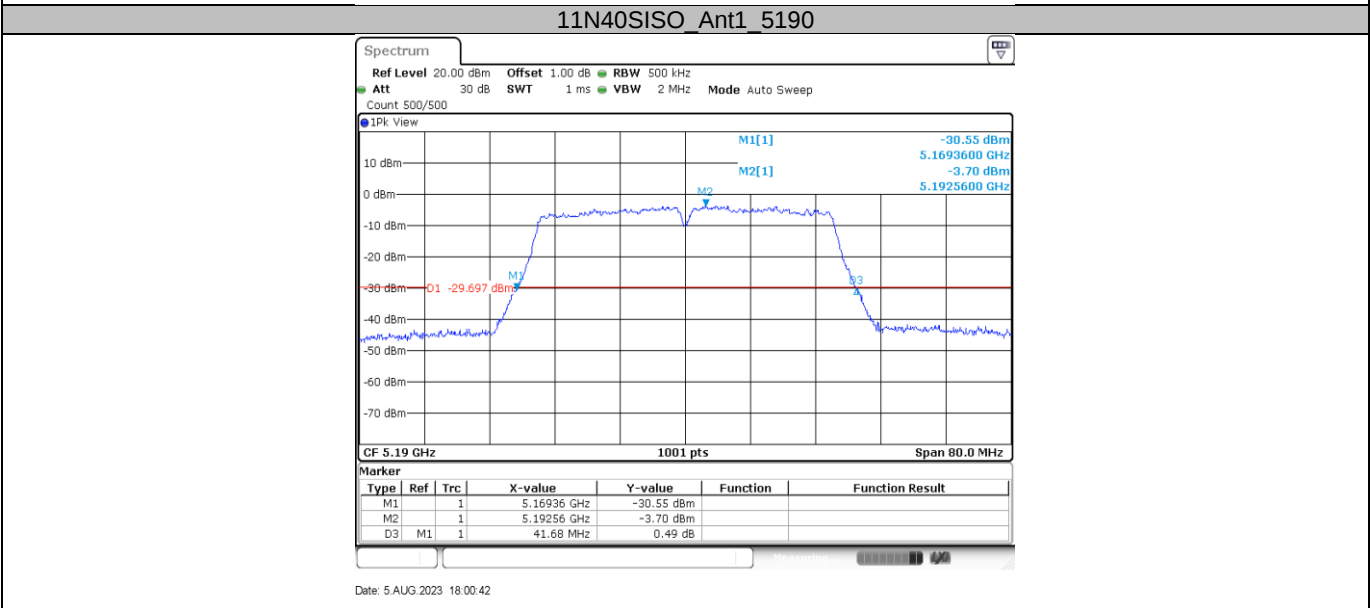
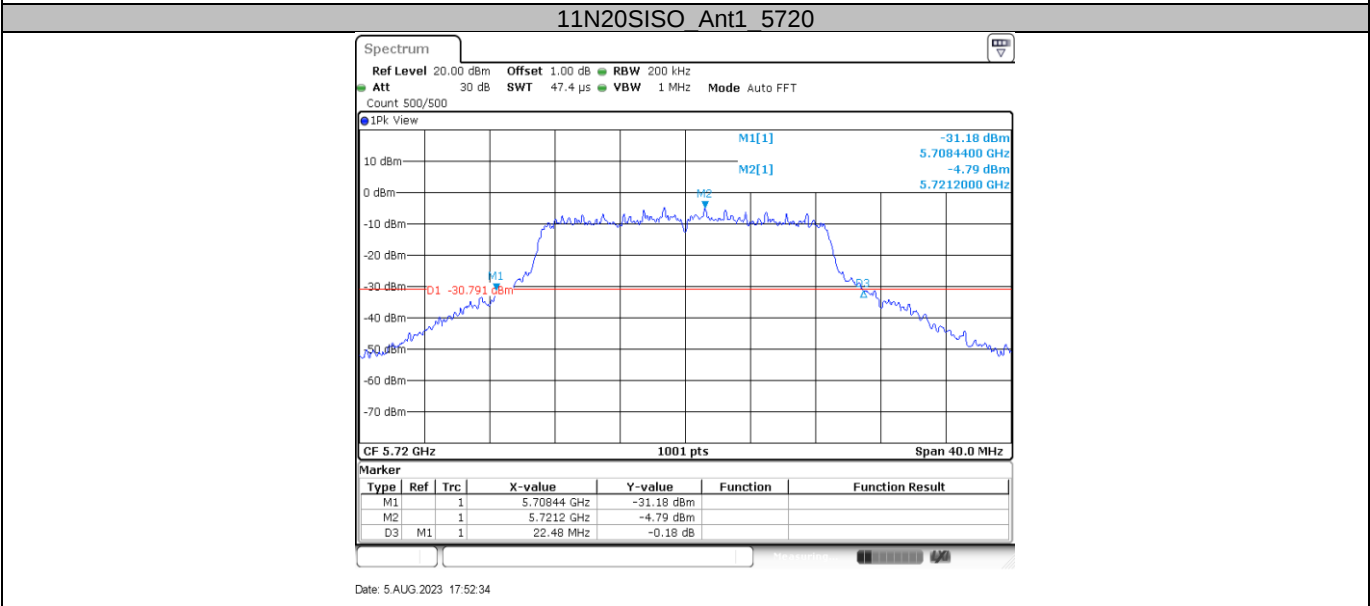
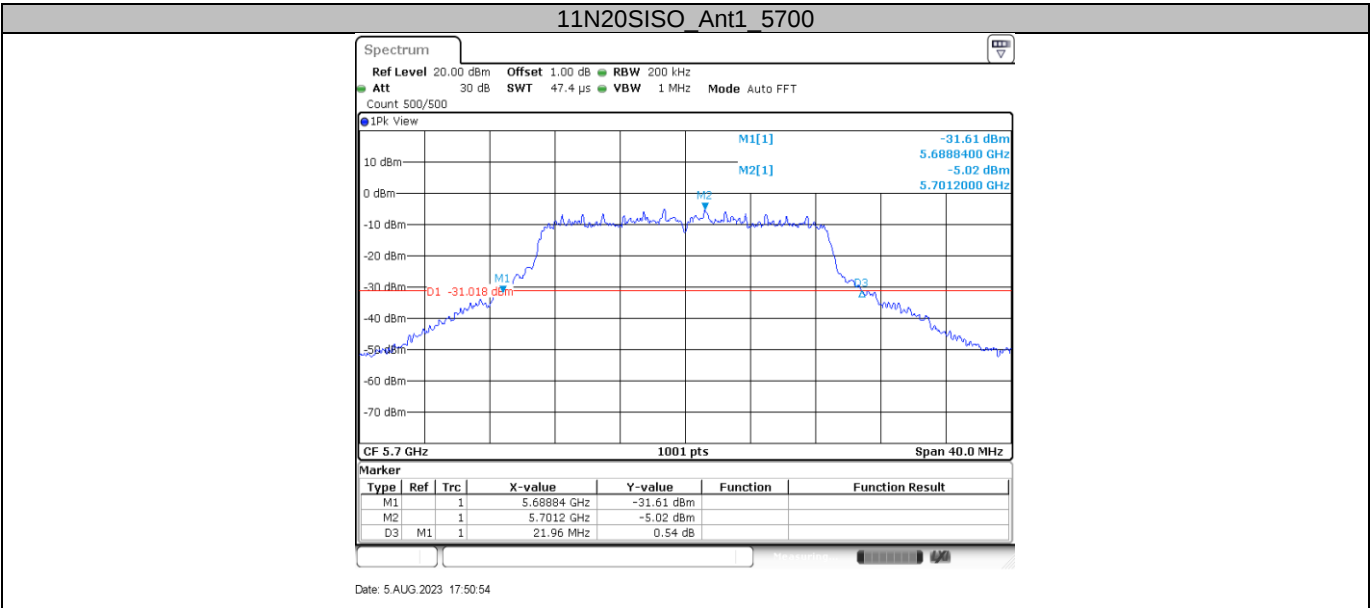


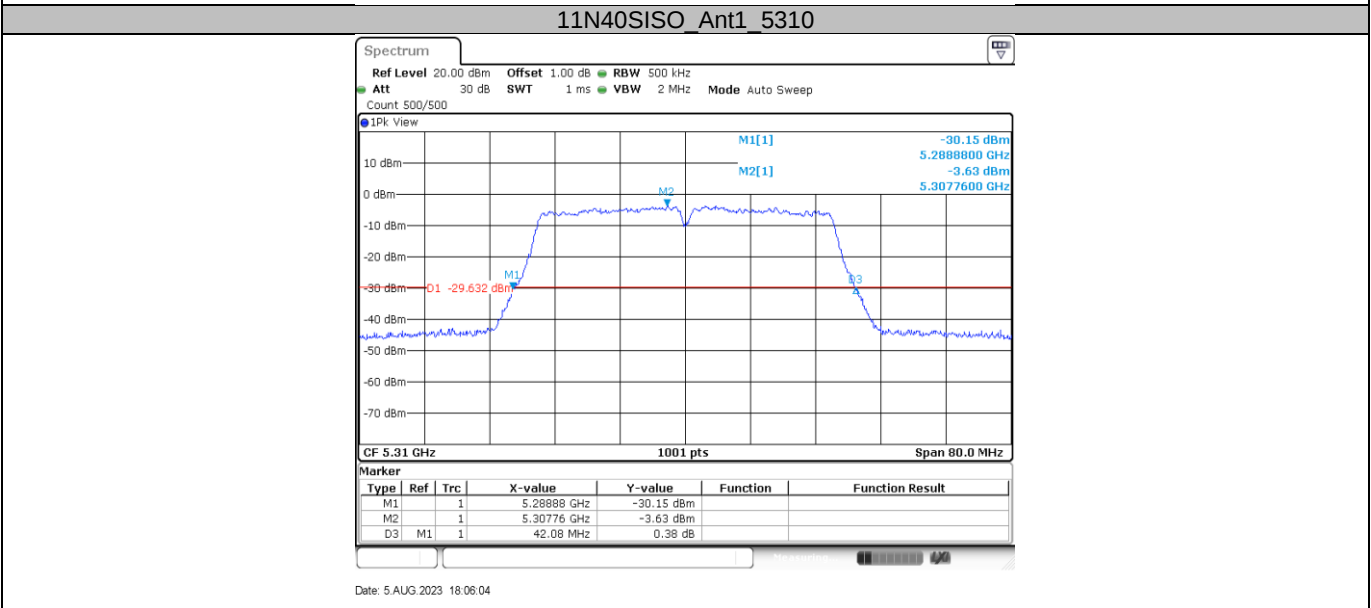
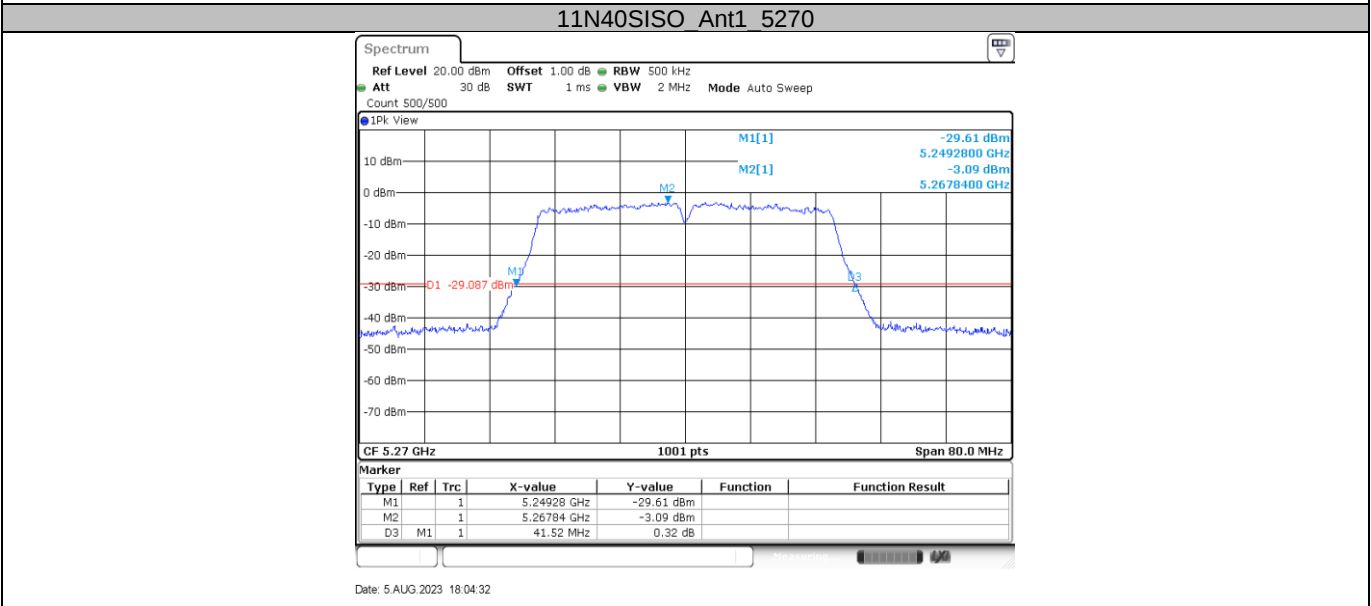
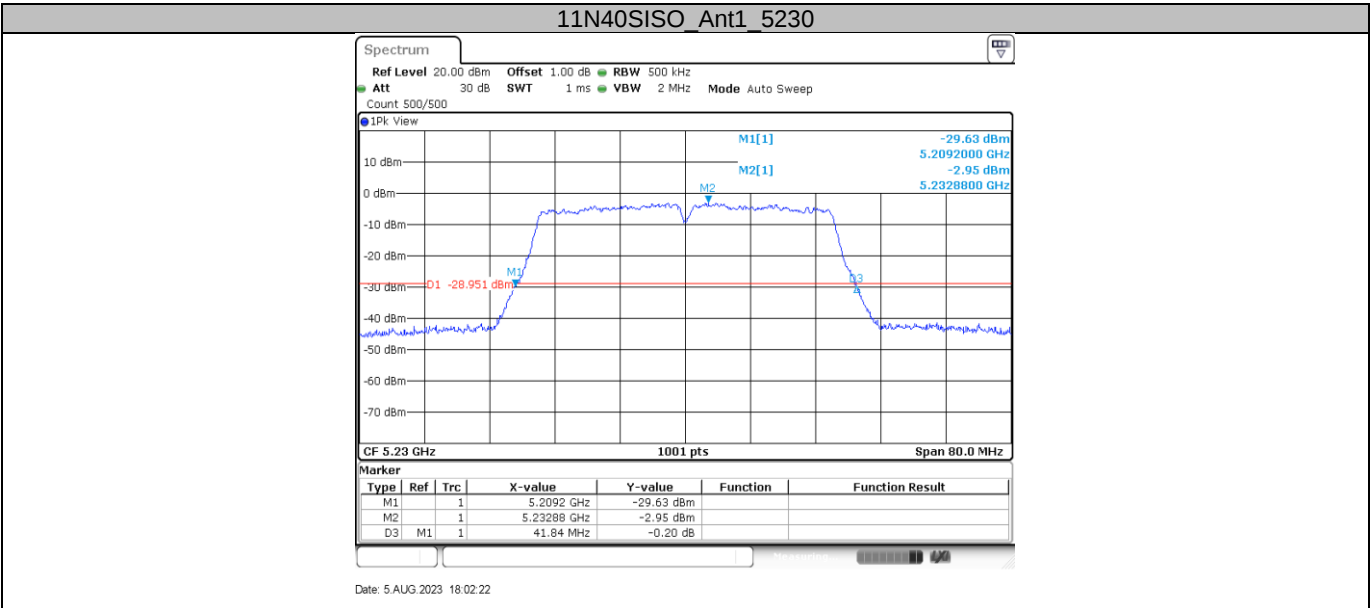




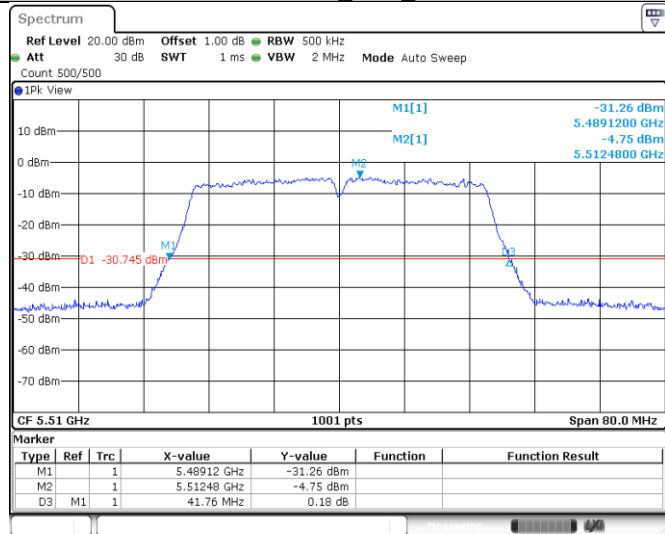






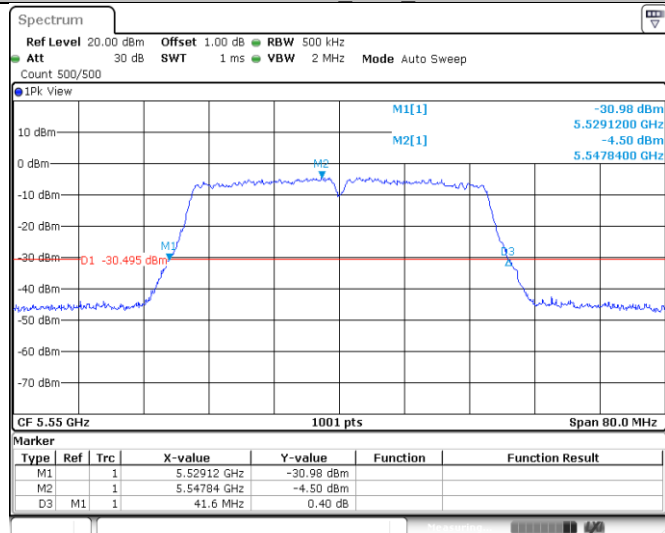


11N40SISO Ant1 5510



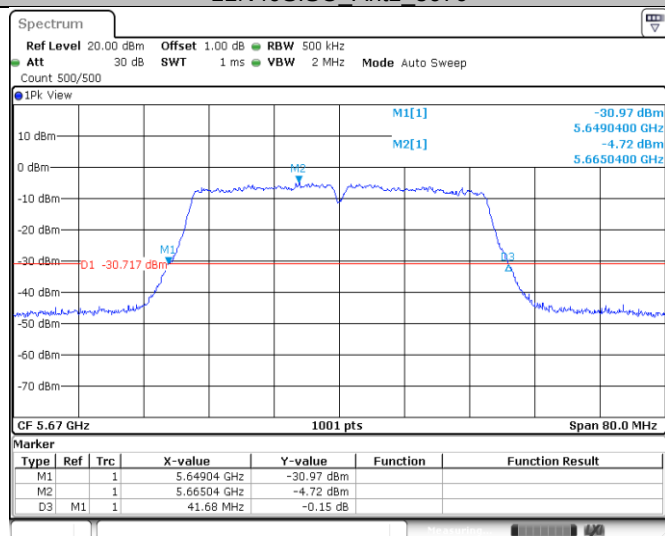
Date: 5 AUG 2023 18:07:46

11N40SISO Ant1 5550



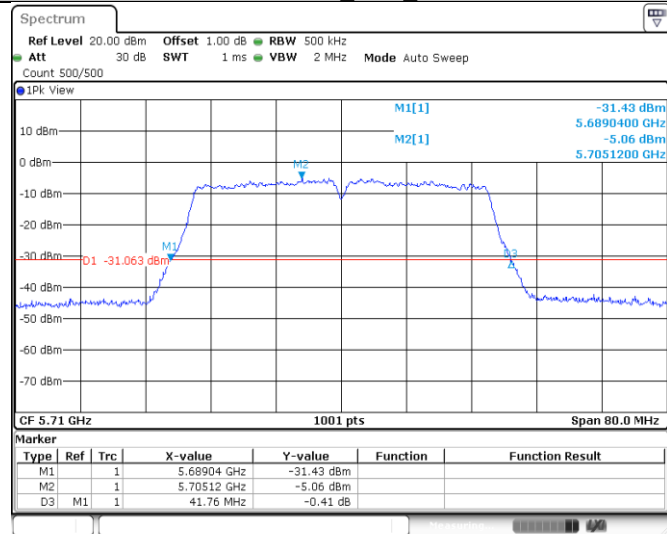
Date: 5 AUG 2023 18:10:12

11N40SISO Ant1 5670



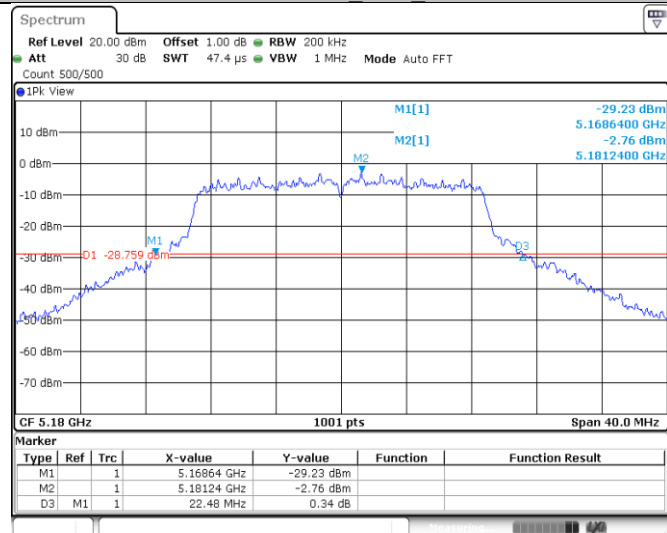
Date: 5 AUG 2023 18:11:43

11N40SISO Ant1 5710



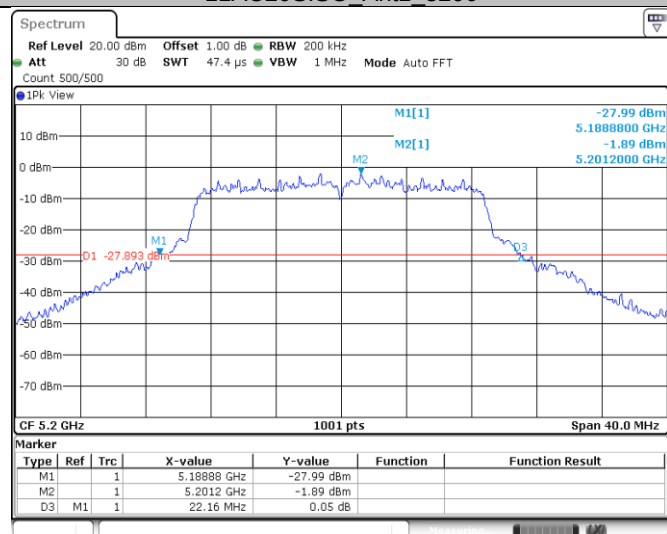
Date: 5 AUG 2023 18:13:25

11AC20SISO Ant1 5180

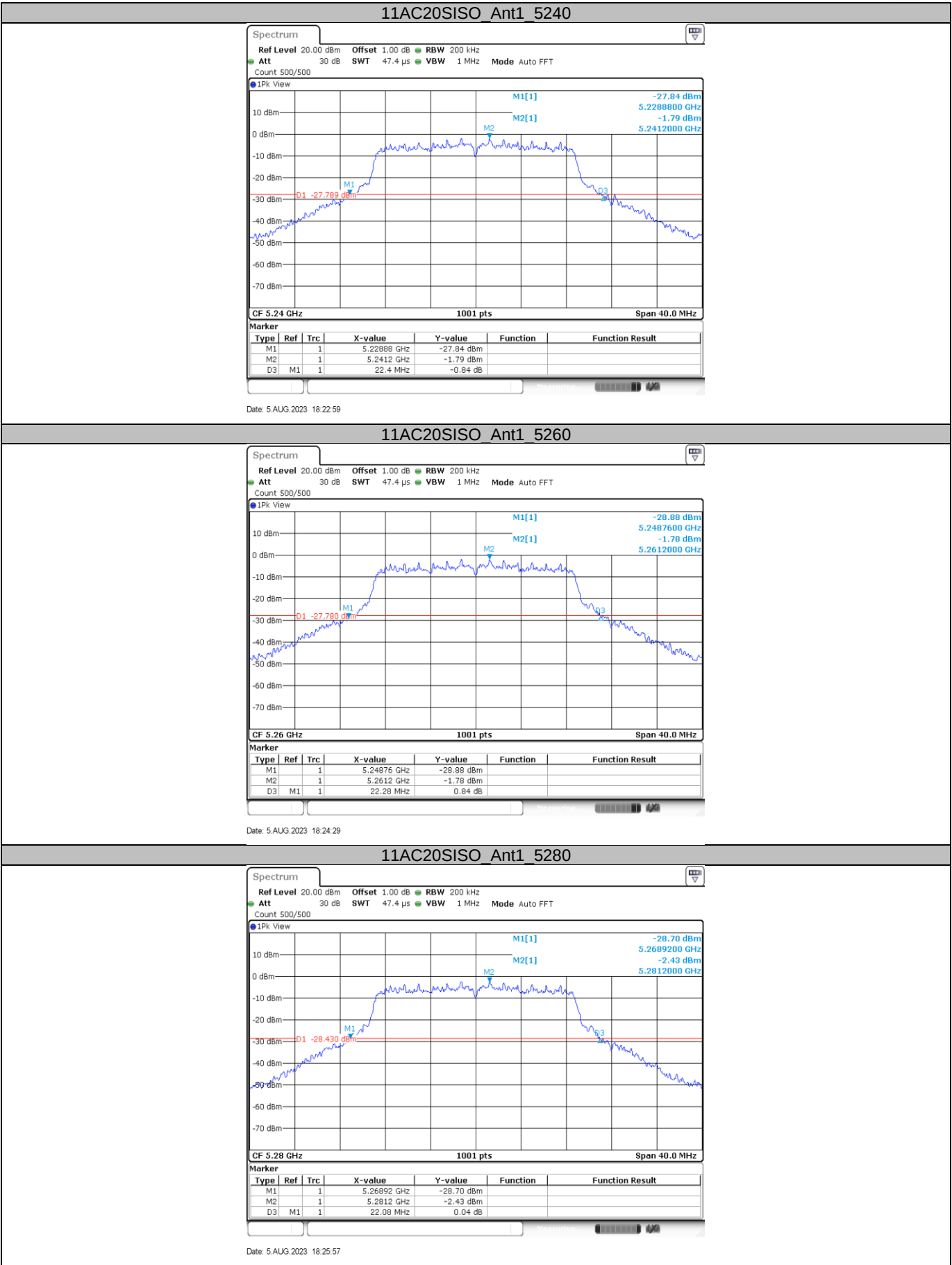


Date: 5 AUG 2023 18:19:46

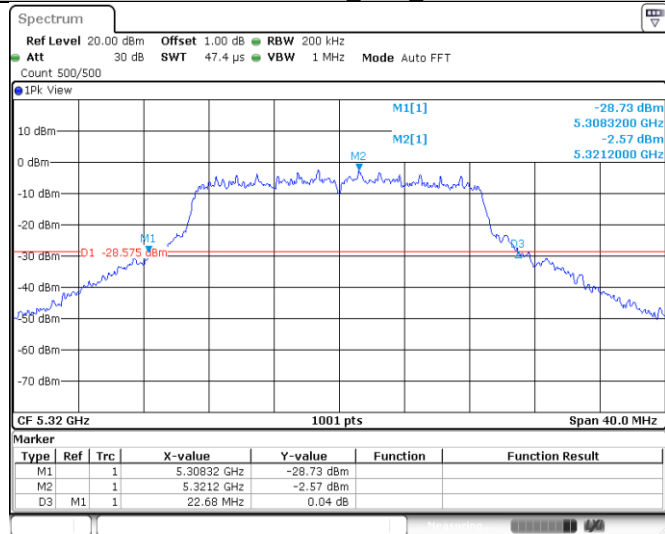
11AC20SISO Ant1 5200



Date: 5 AUG 2023 18:21:29

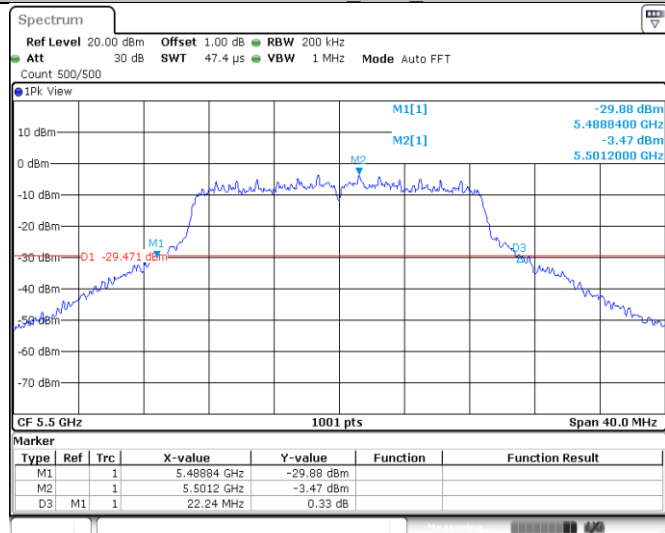


11AC20SISO_Ant1_5320



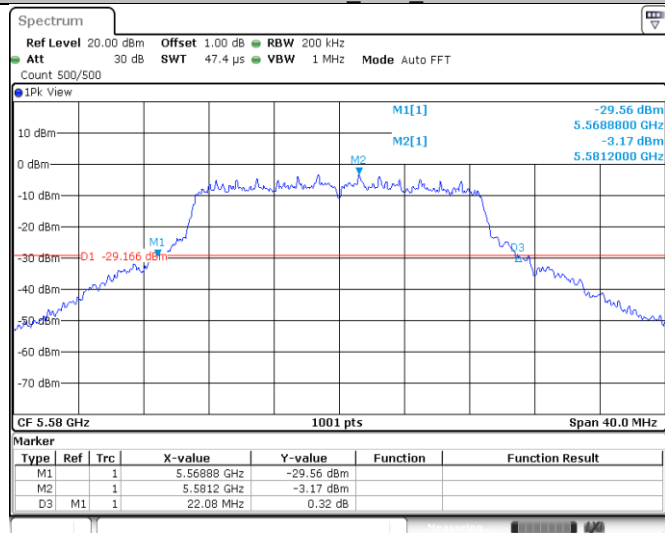
Date: 5 AUG 2023 18:27:25

11AC20SISO_Ant1_5500

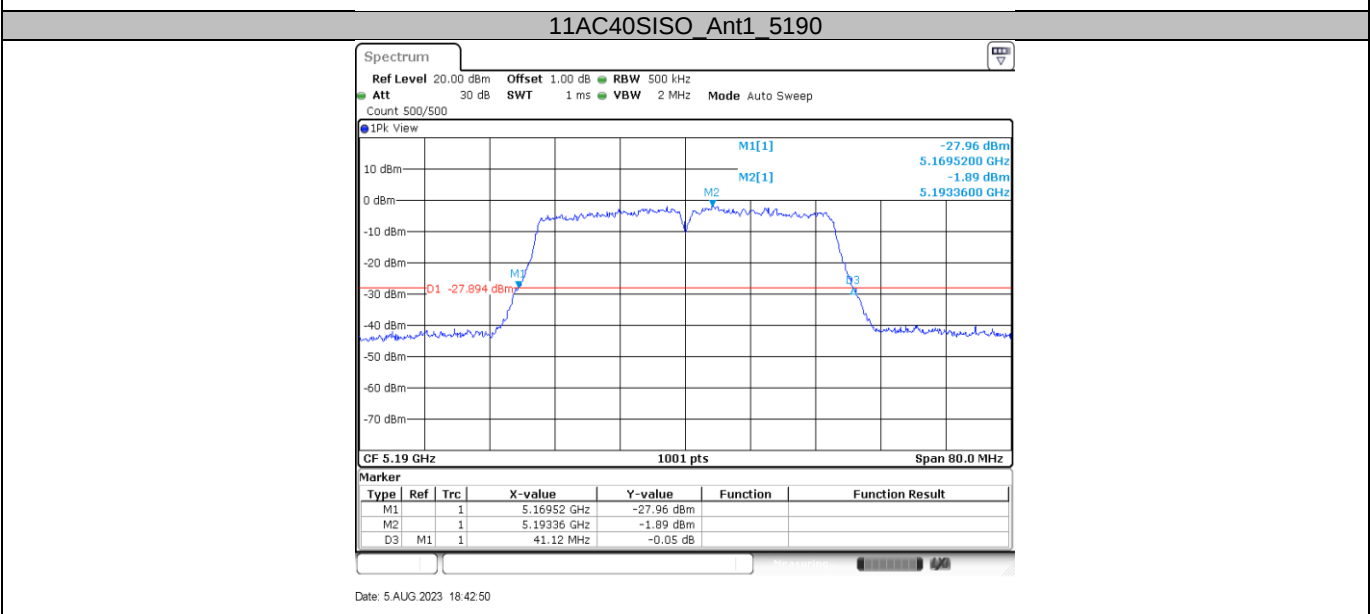
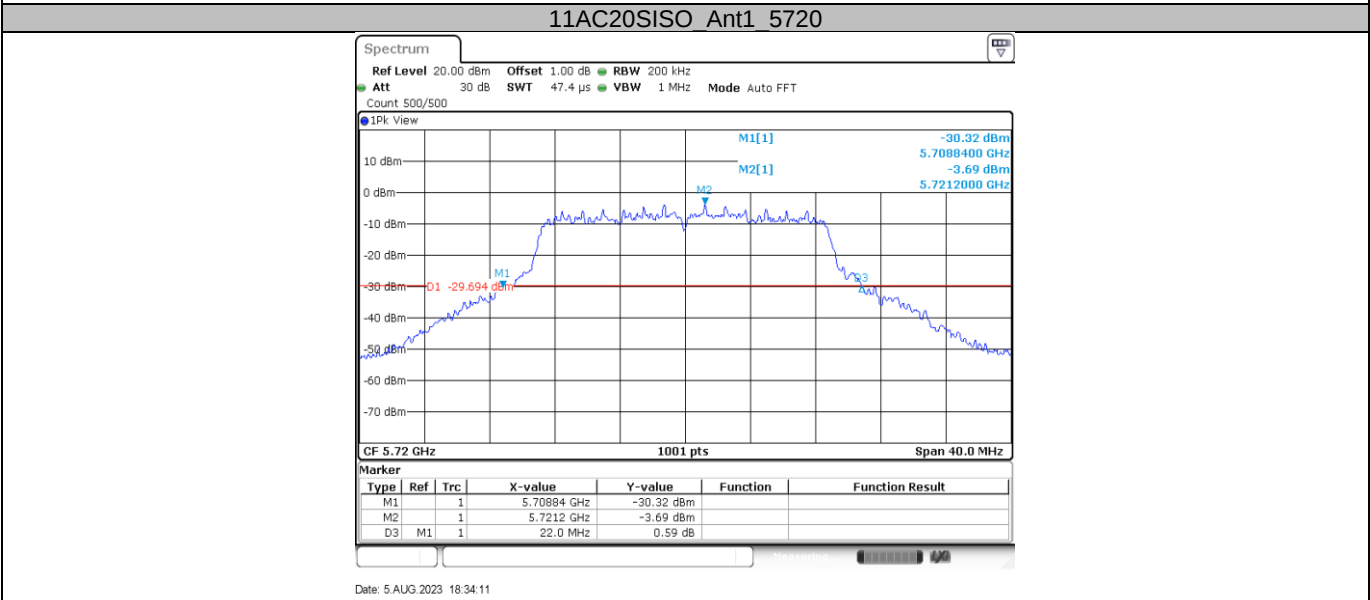
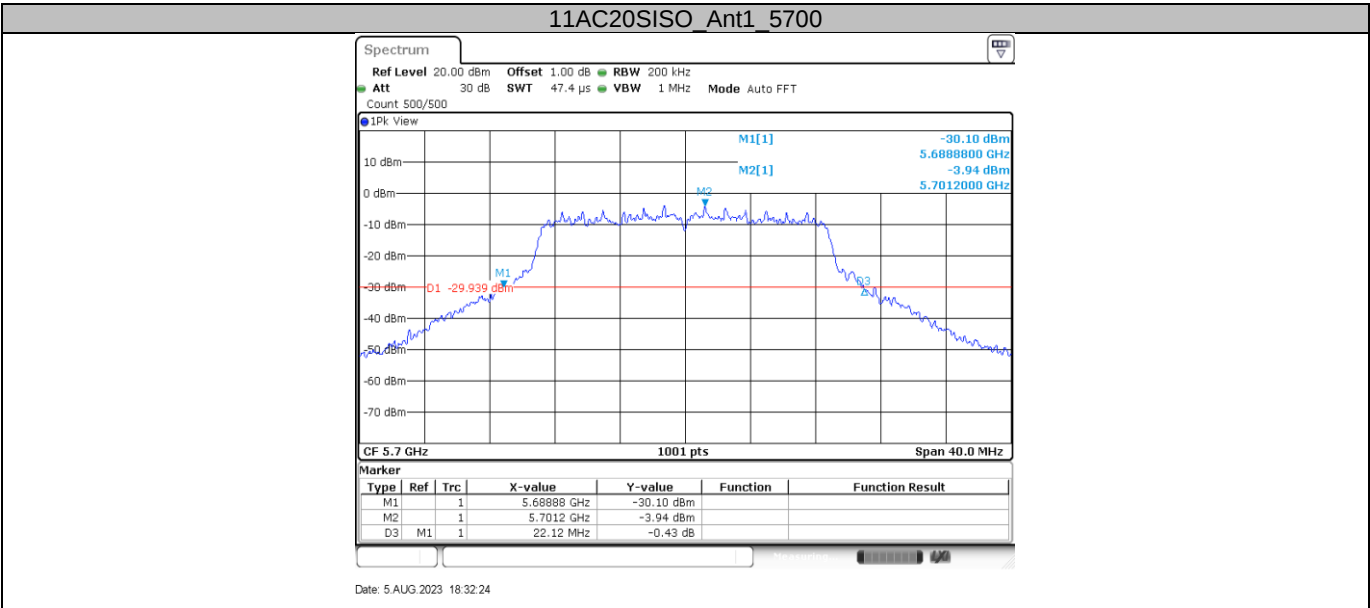


Date: 5 AUG 2023 18:29:05

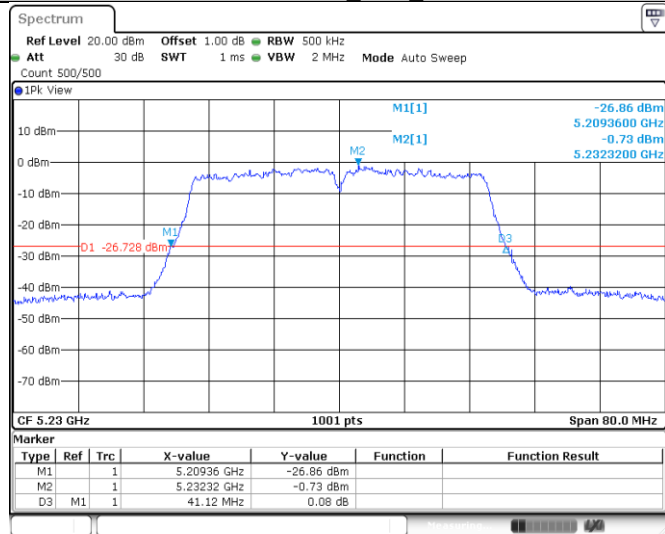
11AC20SISO_Ant1_5580



Date: 5 AUG 2023 18:30:46

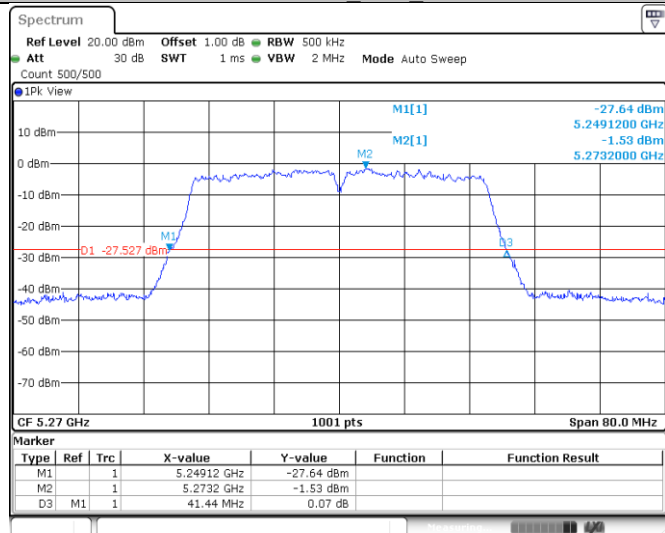


11AC40SISO_Ant1_5230



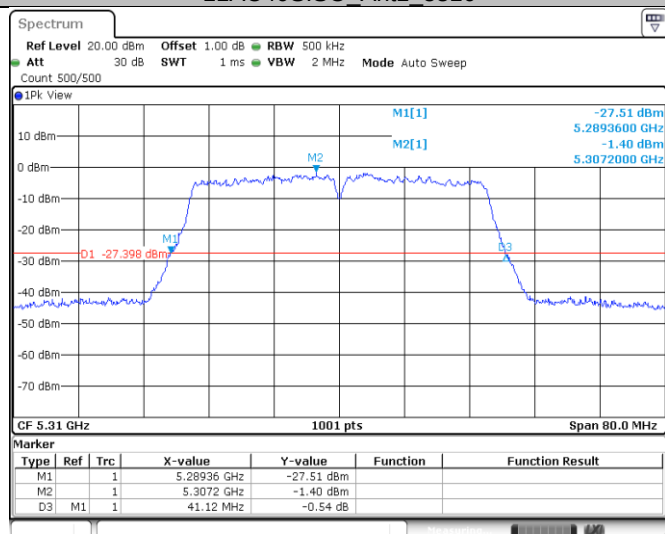
Date: 5 AUG 2023 18:44:32

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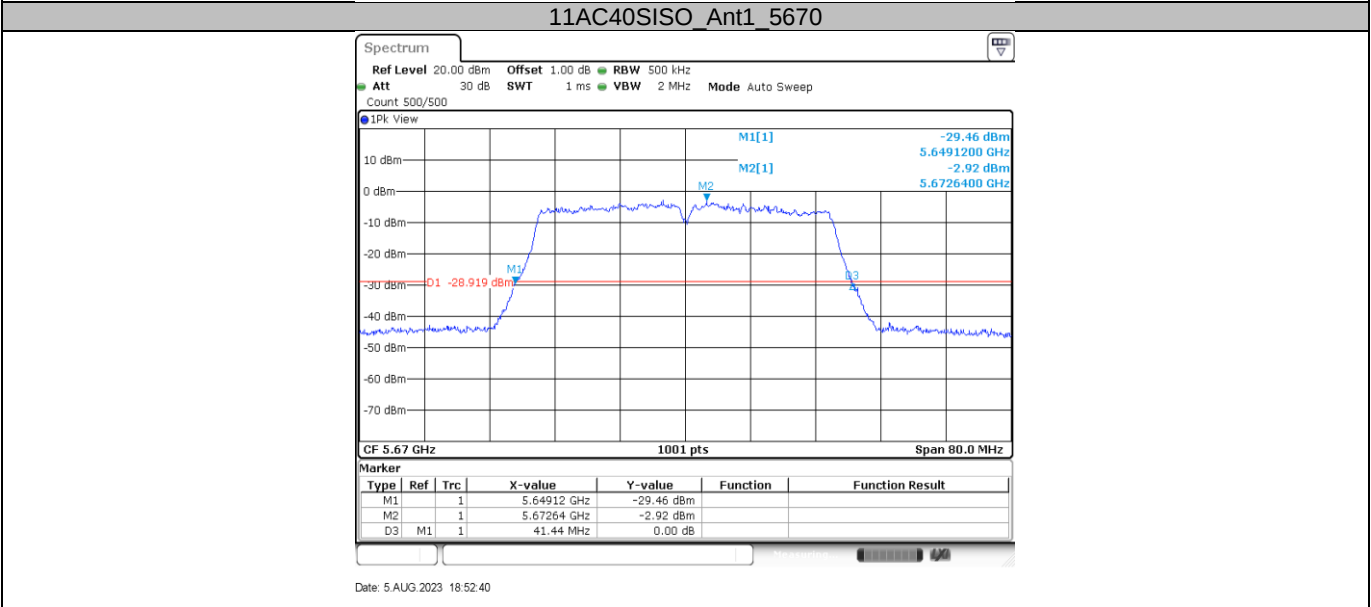
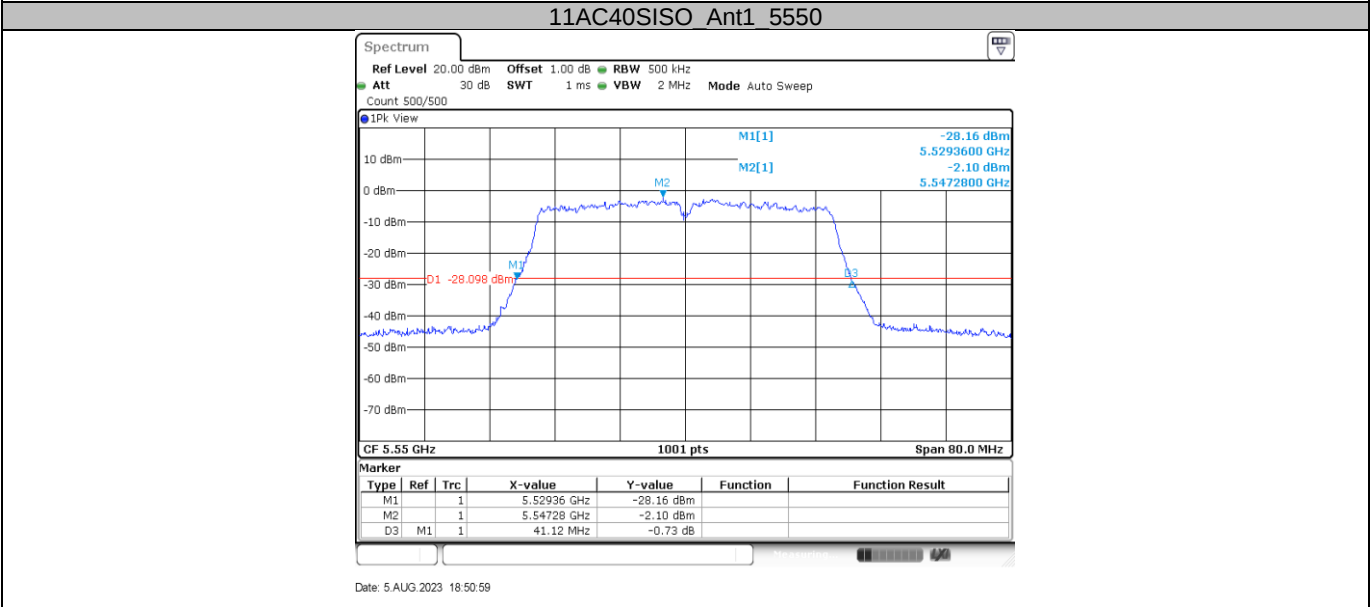
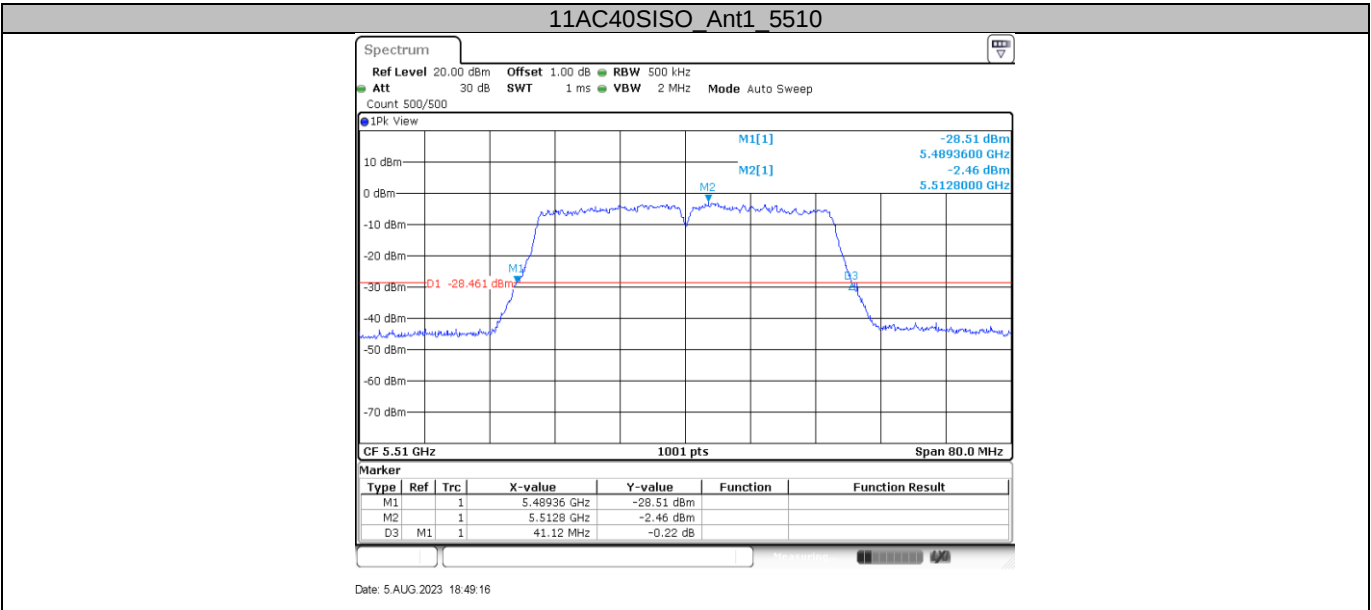


Date: 5 AUG 2023 18:46:01

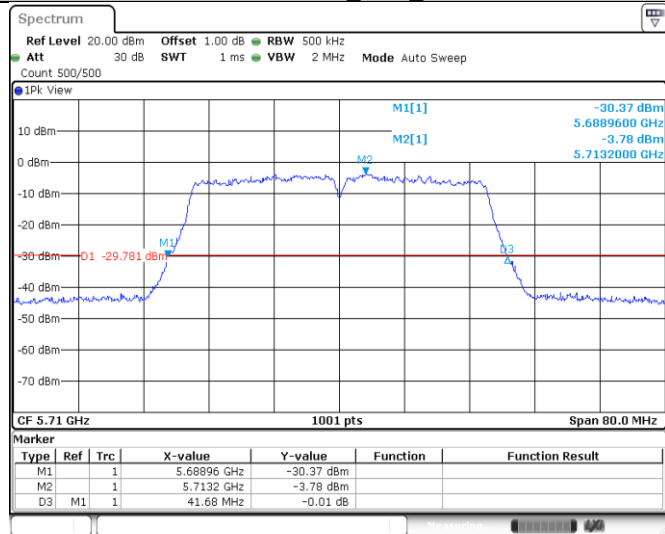
11AC40SISO_Ant1_5310



Date: 5 AUG 2023 18:47:32

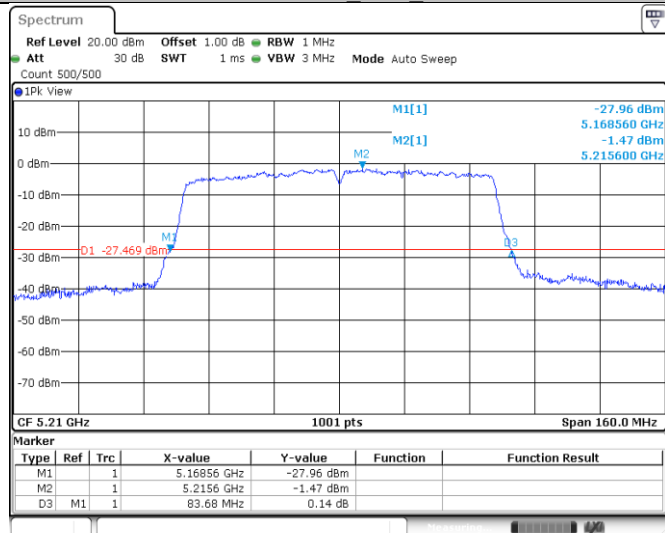


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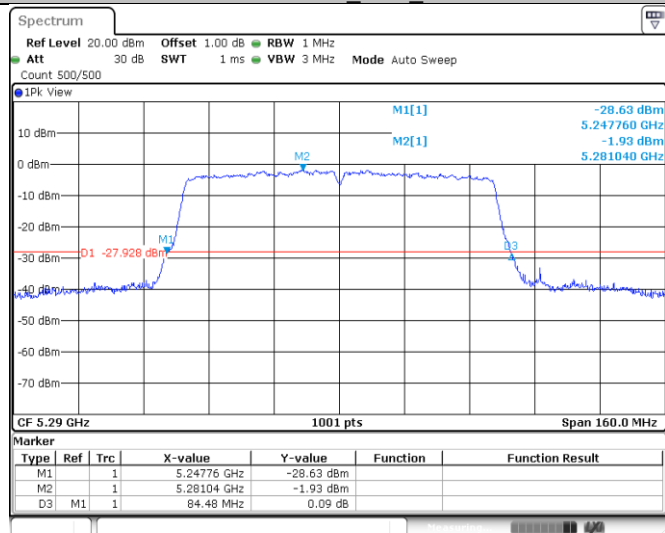
Date: 5 AUG 2023 18:54:22

11AC80SISO_Ant1_5210

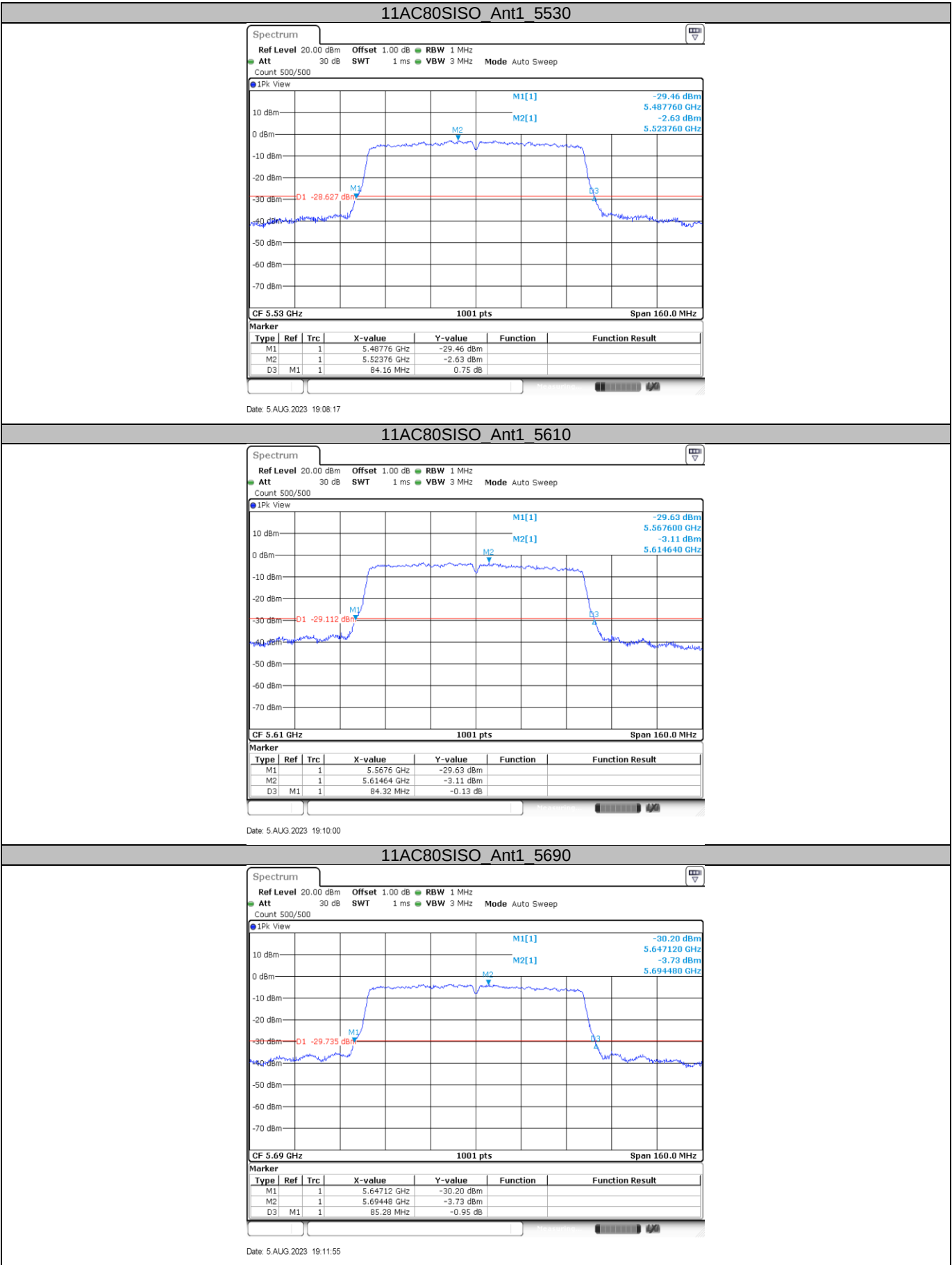


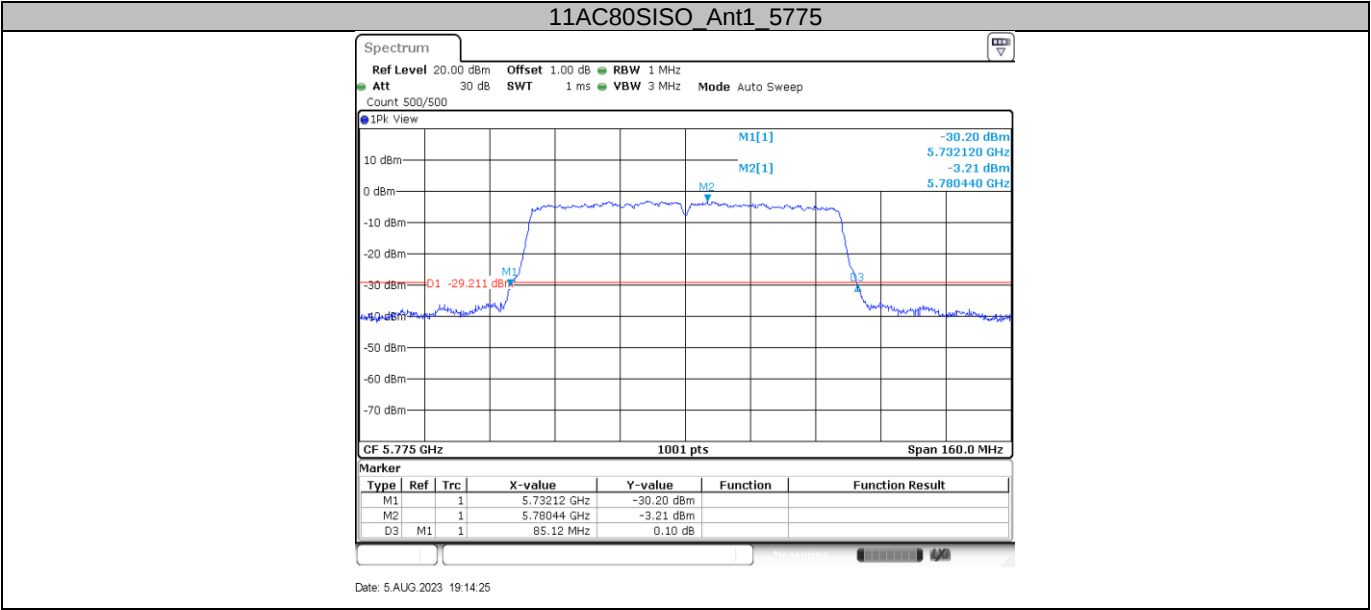
Date: 5 AUG 2023 19:04:46

11AC80SISO_Ant1_5290



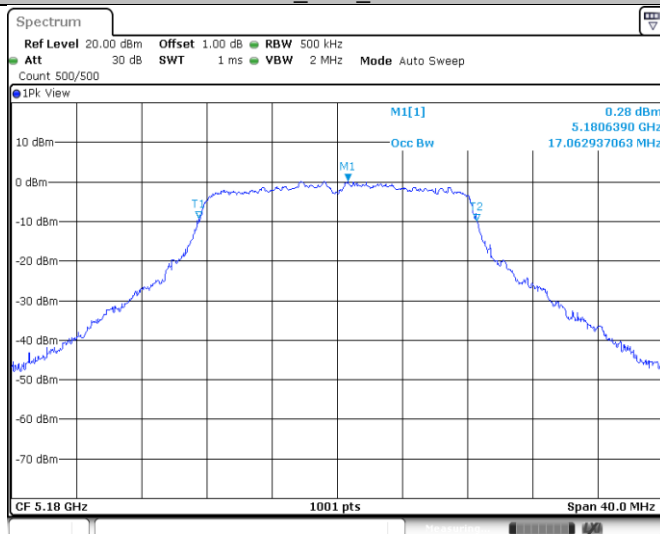
Date: 5 AUG 2023 19:06:30





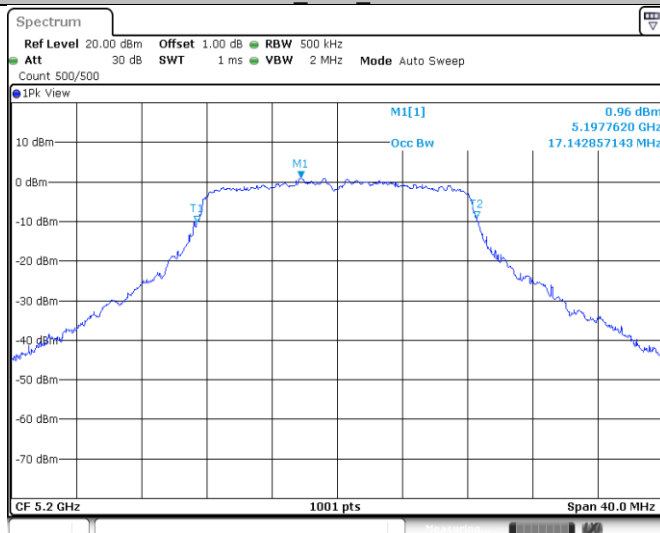
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11A_Ant1_5180



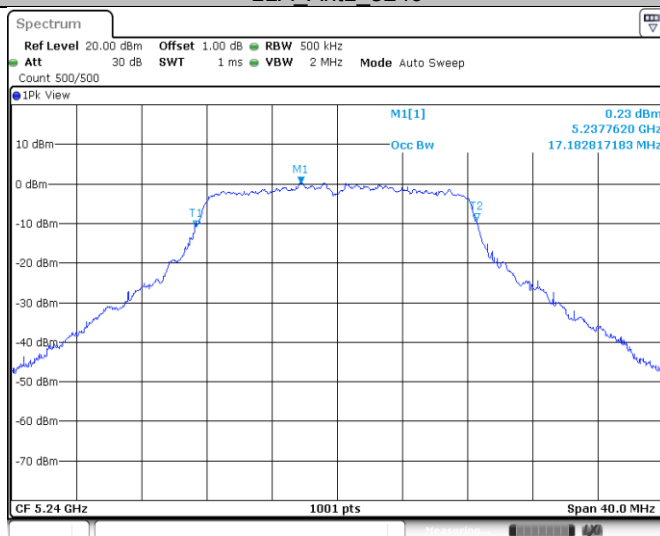
Date: 3.AUG.2023 19:08:02

11A_Ant1_5200



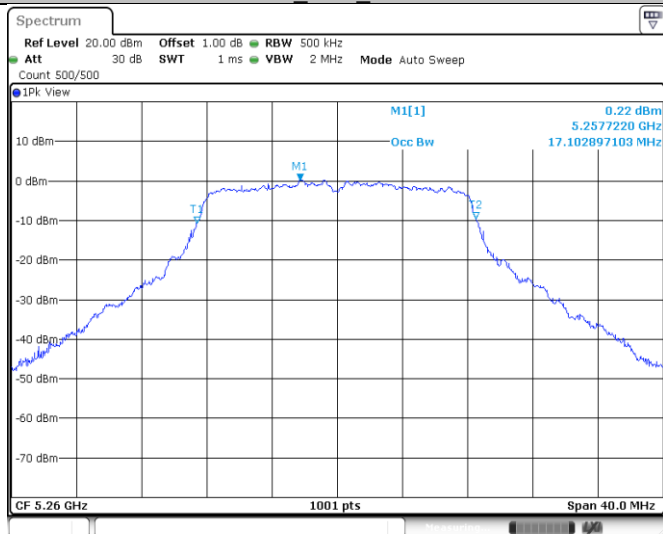
Date: 3.AUG.2023 19:14:30

11A_Ant1_5240



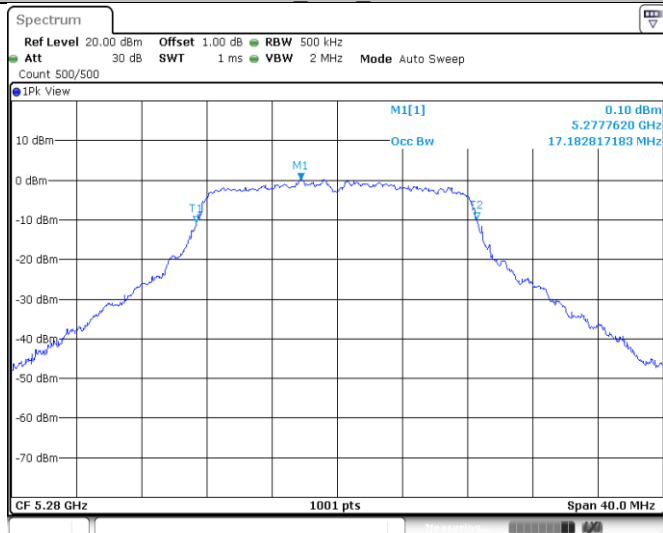
Date: 5.AUG.2023 17:18:44

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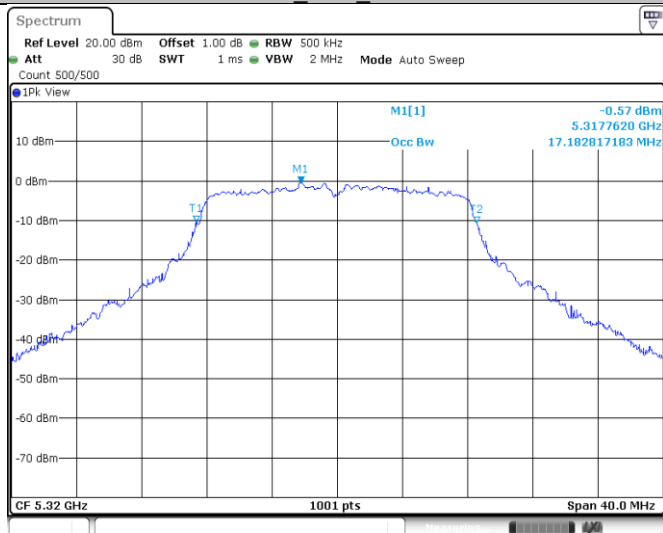
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11A_Ant1_5280



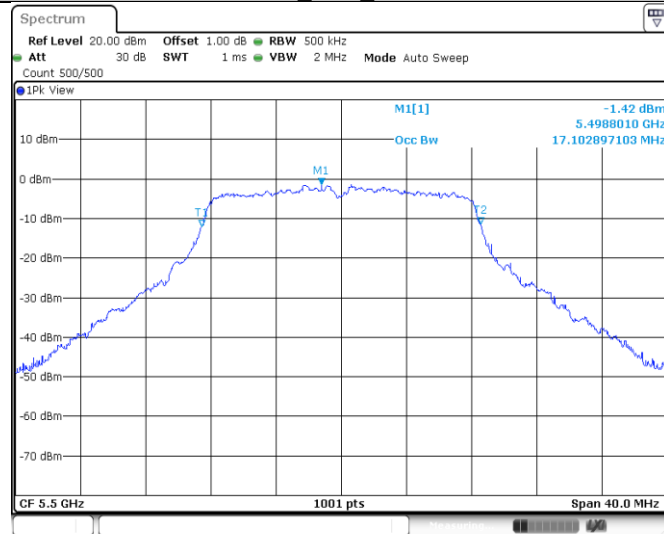
Date: 5.AUG.2023 17:21:59

11A_Ant1_5320



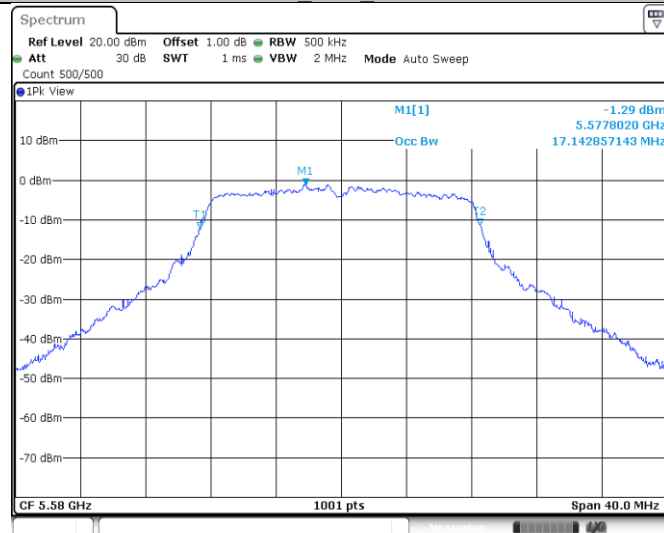
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11A_Ant1_5500



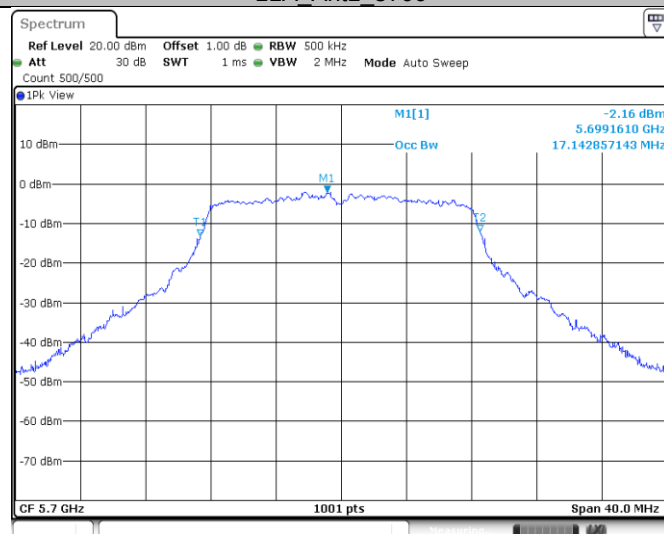
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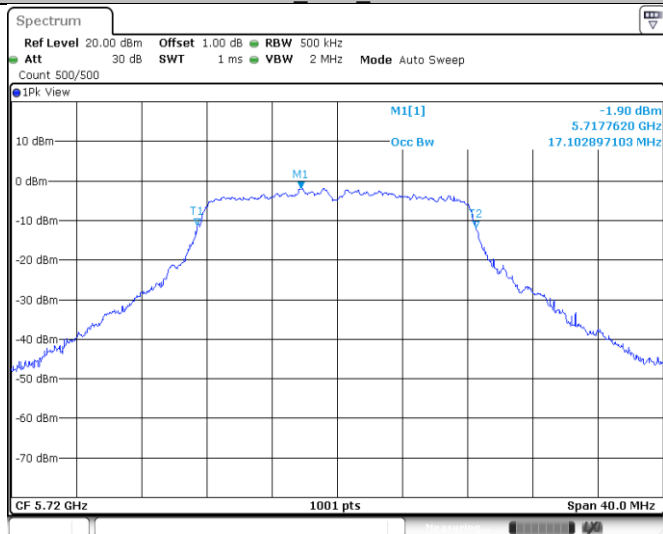
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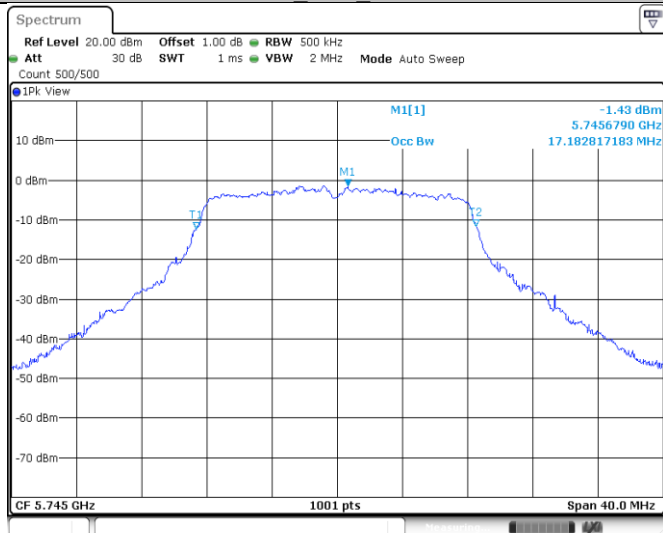
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11A_Ant1_5720



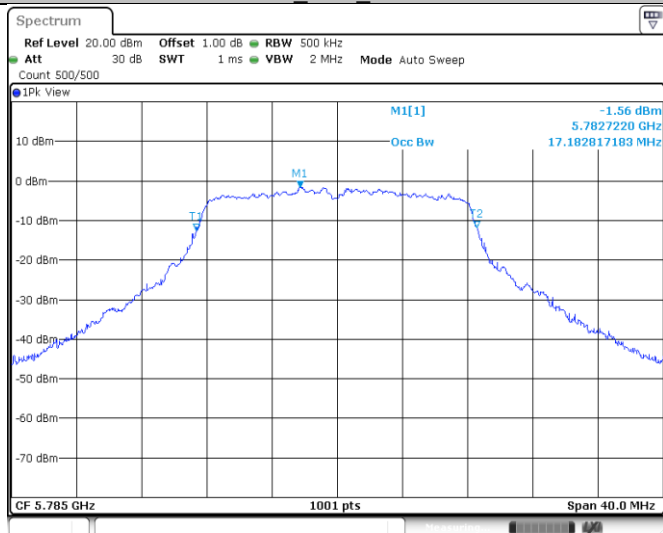
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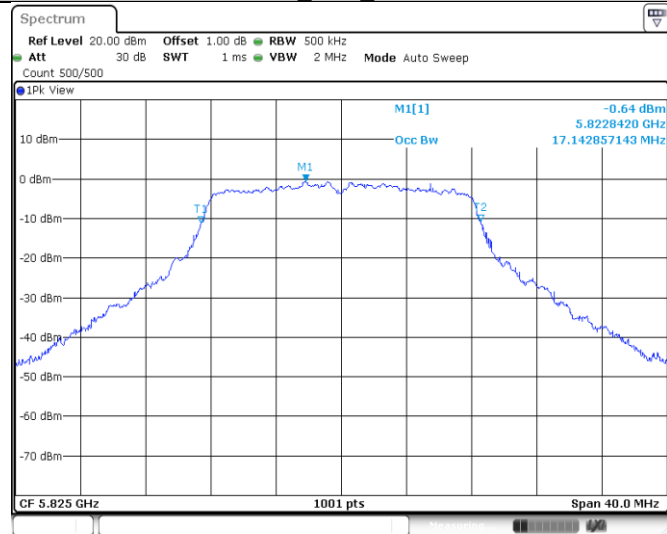
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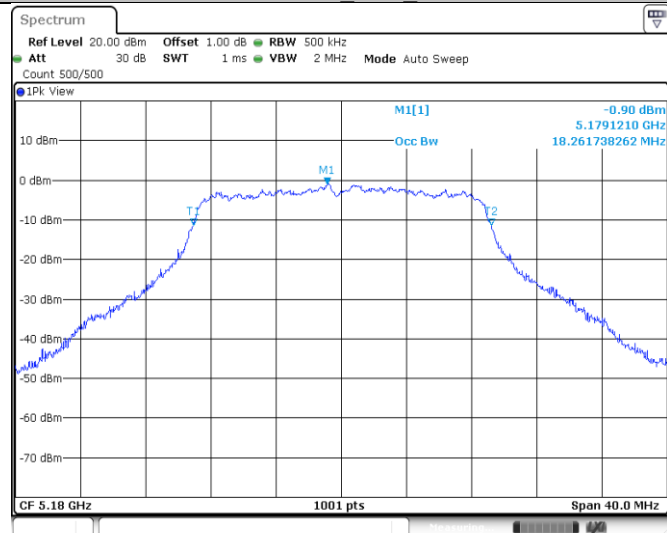
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11A_Ant1_5825



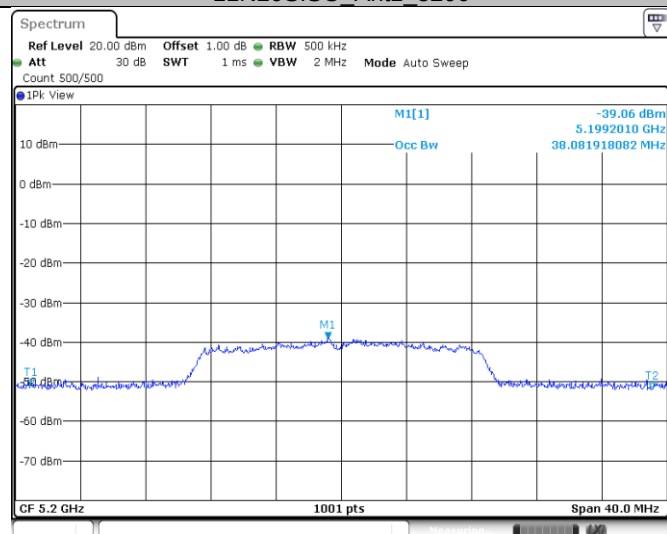
Date: 5.AUG.2023 17:36:48

11N20SISO_Ant1_5180



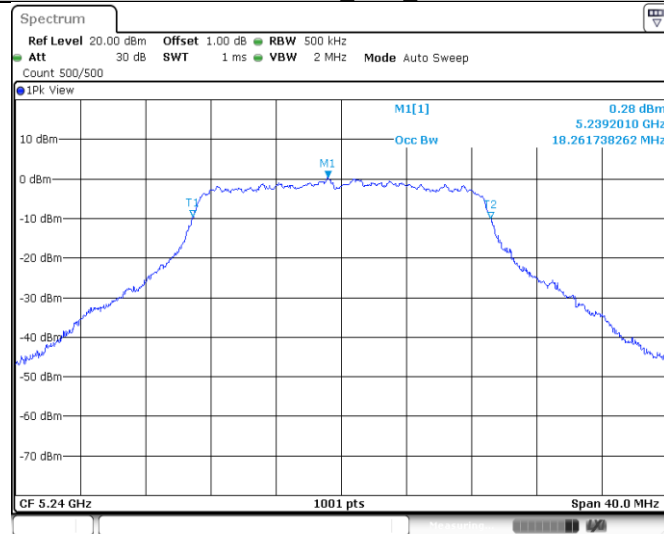
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11N20SISO_Ant1_5200



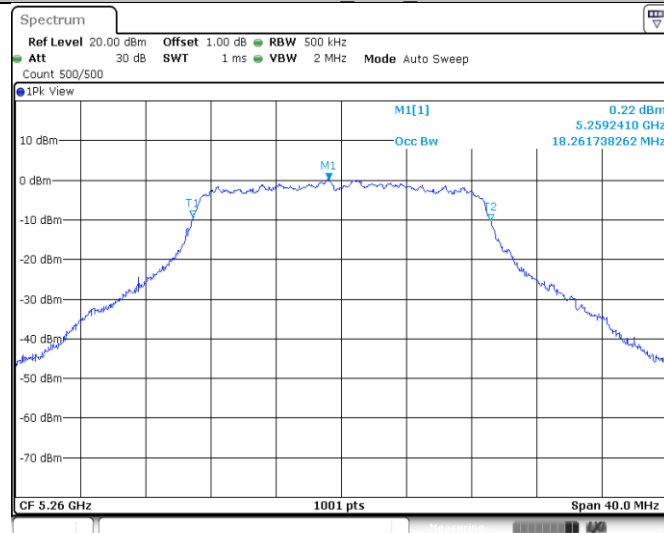
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11N20SISO Ant1 5240



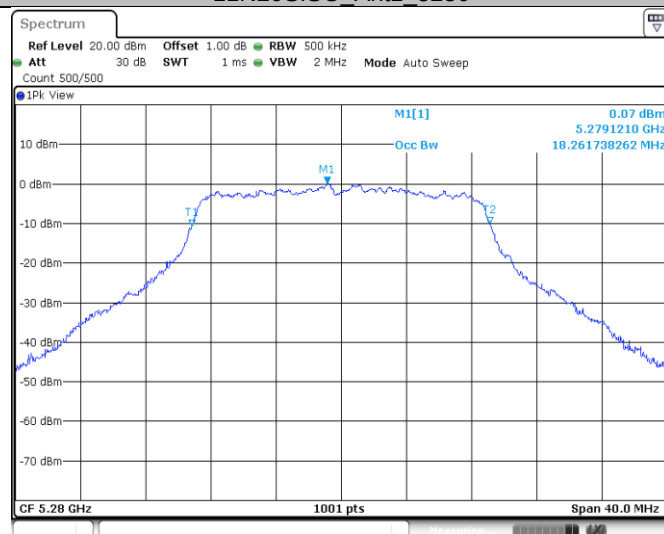
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11N20SISO Ant1 5260



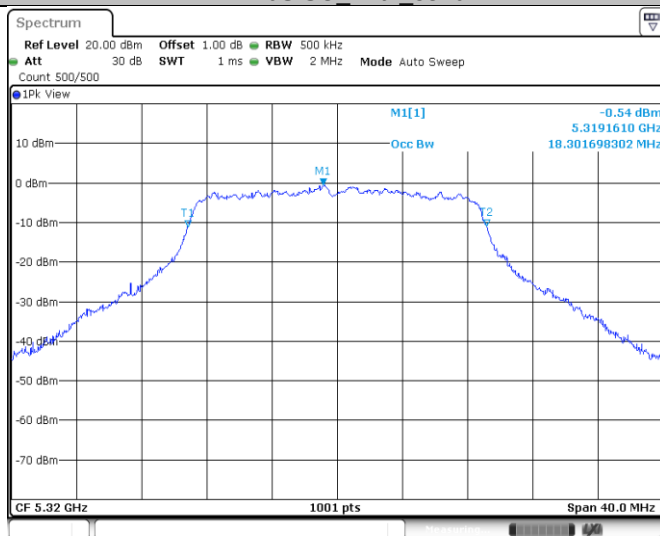
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11N20SISO Ant1 5280



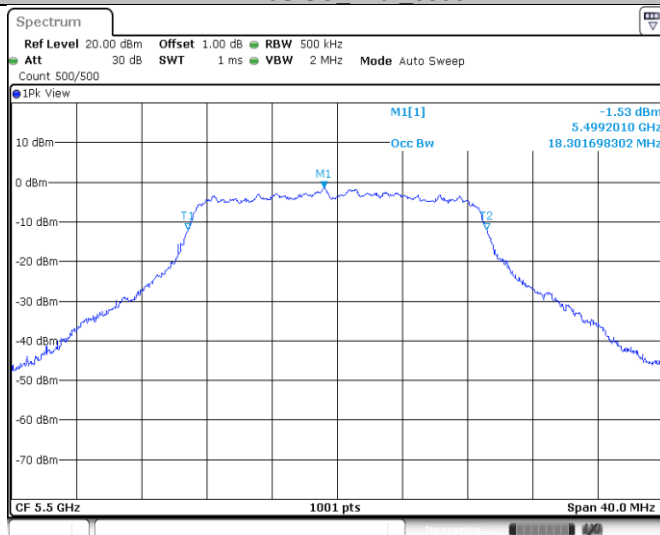
Date: 5.AUG.2023 17:44:43

11N20SISO Ant1 5320



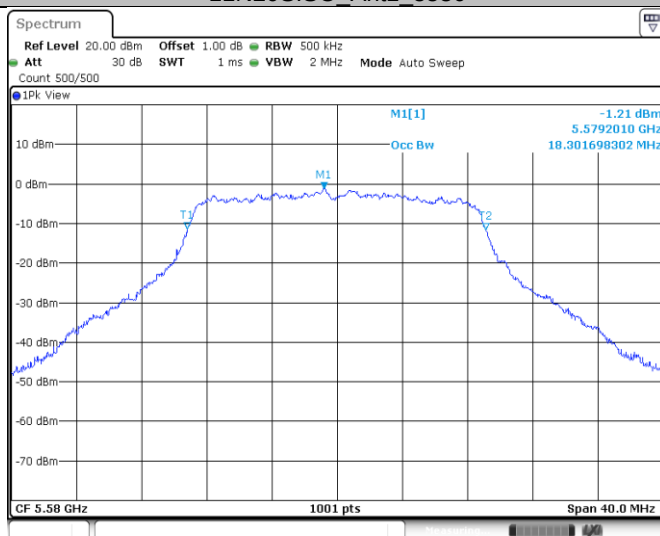
Date: 5.AUG.2023 17:46:11

11N20SISO Ant1 5500



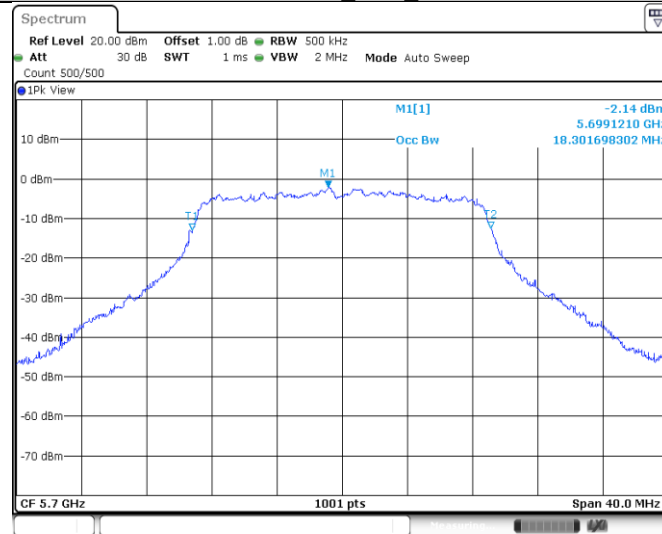
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11N20SISO Ant1 5580



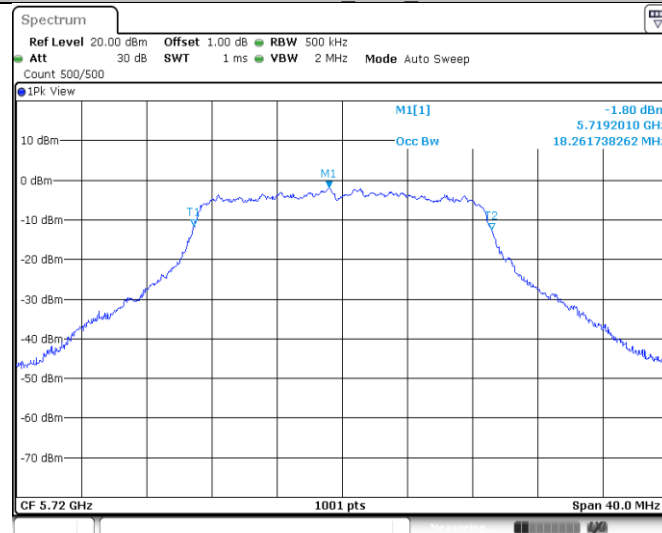
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11N20SISO Ant1 5700



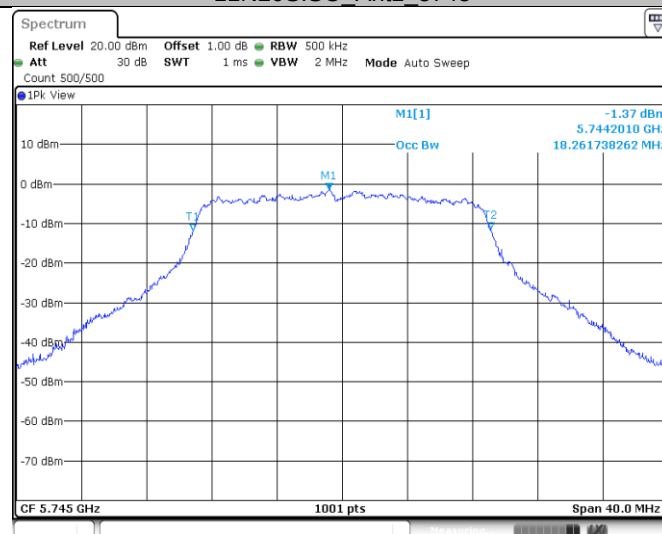
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11N20SISO Ant1 5720



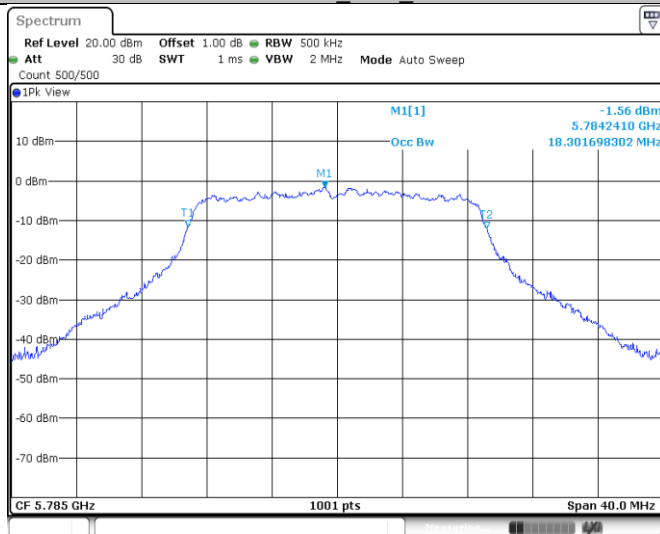
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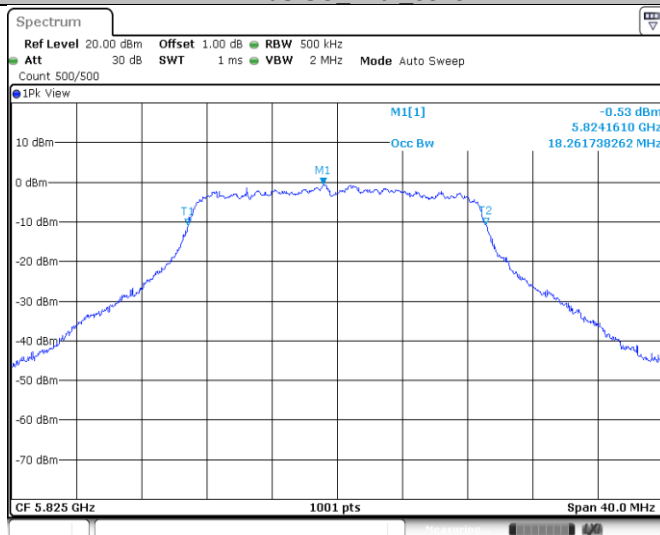
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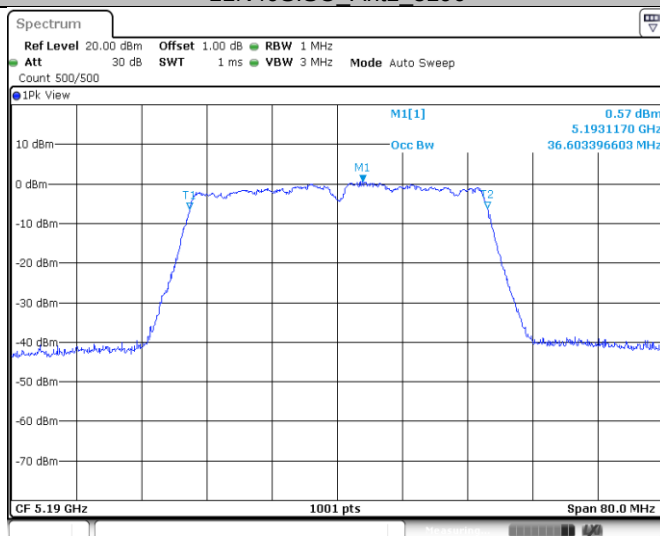
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11N20SISO Ant1 5825



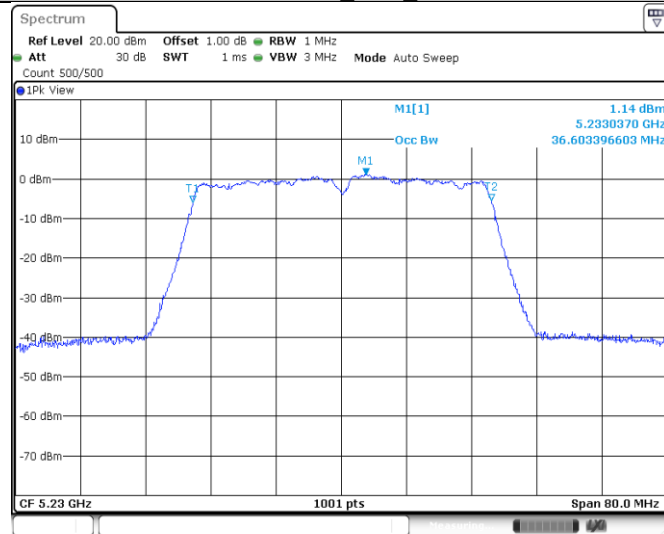
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11N40SISO Ant1 5190



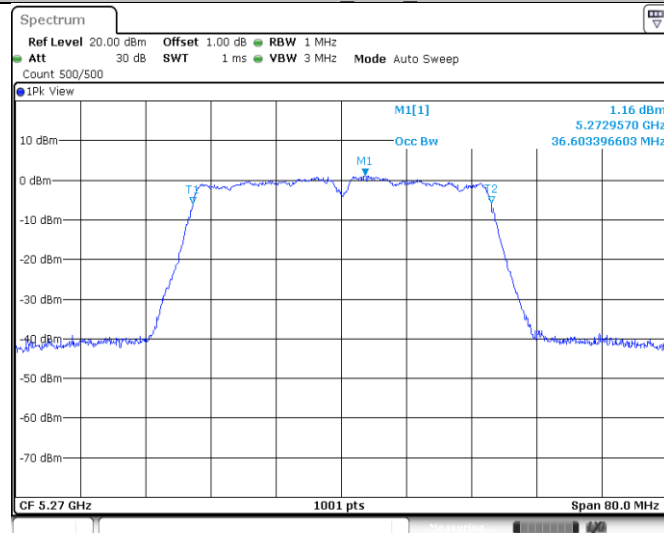
Date: 5 AUG 2023 18:00:53

11N40SISO Ant1 5230



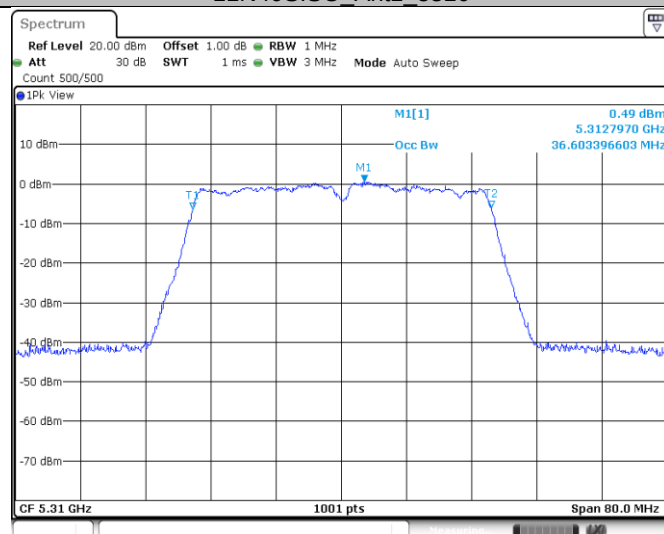
Date: 5 AUG 2023 18:02:34

11N40SISO Ant1 5270



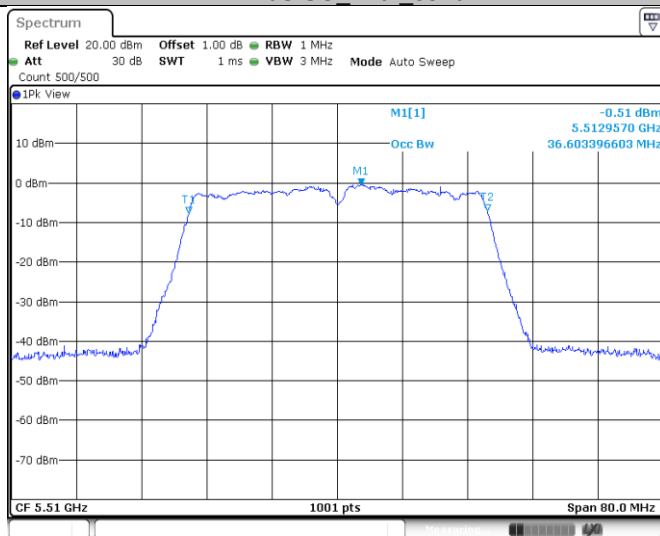
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11N40SISO Ant1 5310



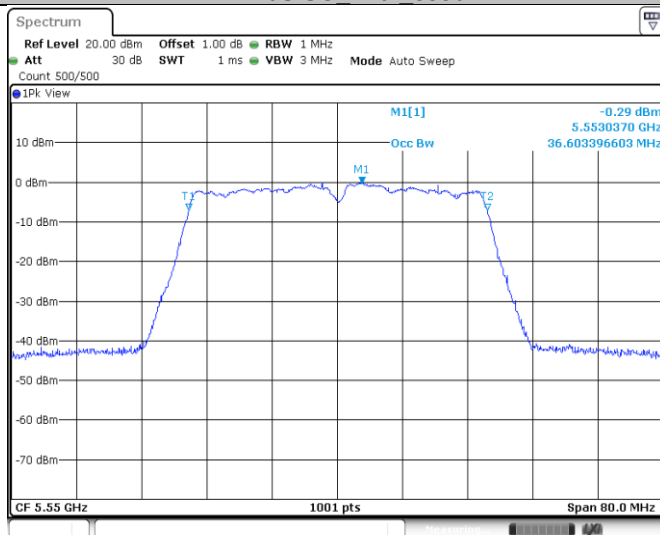
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11N40SISO Ant1 5510



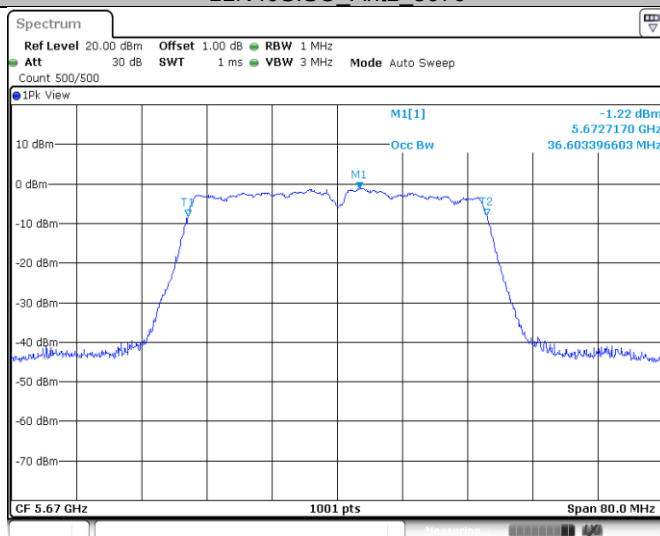
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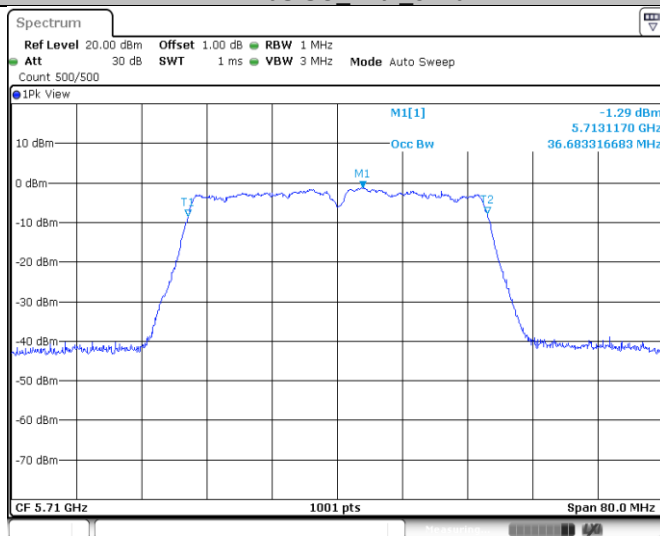
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11N40SISO Ant1 5670



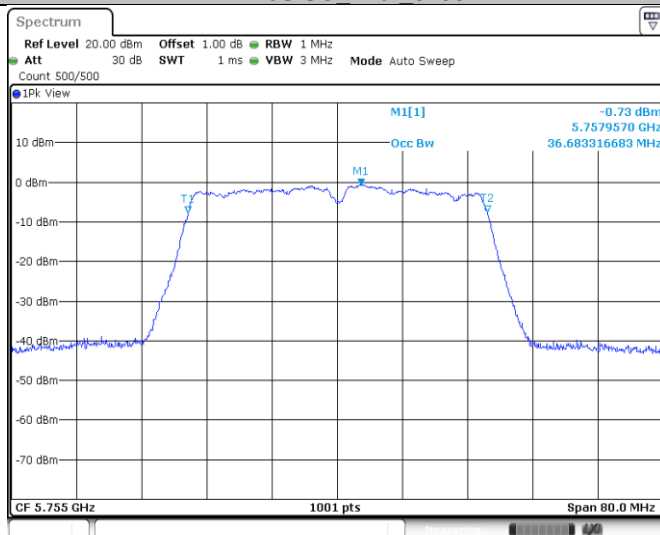
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11N40SISO Ant1 5710



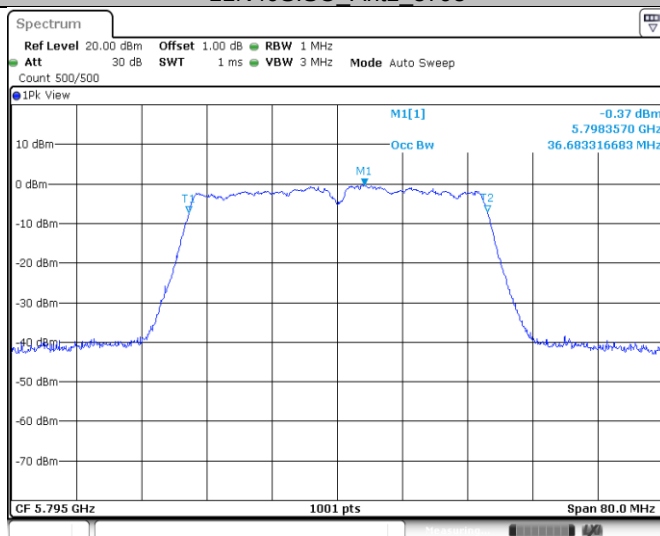
Date: 5 AUG 2023 18:13:38

11N40SISO Ant1 5755



Date: 5 AUG 2023 18:16:12

11N40SISO Ant1 5795



Date: 5 AUG 2023 18:18:16